Fişa suspiciunii de plagiat / Sheet of plagiarism's suspicion
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Indexat la: 39/01

Opera suspicionată (OS)	Opera autentică (OA)
Suspicious work	Authentic work

OS	MANG, Erica, MANG, Ioan, POPESCU, Constantin. Cryptanalise aspects on the block ciphers of RC5 and RC6. <i>Proceedings of International Symposium on System Theory.</i> SINTES'11, Craiova, 2003, p.1-6, Disponibil Ia: <u>http://ace.ucv.ro/sintes11/</u> Volume2/4%20COMPUTERS % 20ENGINEERING / IC10 Mang Erica 1.pdf.
OA	SHIMOYAMA, T., TAKEUCHI, K., HAYAKAWA, J. Correlation atack to the block cipher RC5 and the simplified variantes of RC6. 2001. p.2-15, Disponibil la: <u>http://www.google.ro/url?sa=t&amp;rct=j&amp;q=&amp;esrc=s&amp;source=web&amp;cd=1&amp;ved=</u> 0CHMQFjAA&url=http%3A%2F%2Fciteseerx.ist.psu.edu % 2Fviewdoc % 2Fdownload % 3Fdoi % 3D10.1.1.31.2917 % 26rep % 3Drep1 % 26type % 3Dpdf&ei= h0ipT82GCPOK4gT_hbHMCQ & usg=AFQjCNFqjSpnl64zpjr-m6g3K2FgHssXIA

Incidența minimă a suspiciunii / Minimum incidence of suspicion										
p.1:1s – p.1:16s.	p.1:10 – p.1:21	p.1:19s – p.6: 21	p.1:22 – p.13:6							
p.2:Table 1	p.3:Table 1	p.3:Table 2	p.5:Table2							
Fişa întocmită pent	Fişa întocmită pentru includerea suspiciunii în Indexul Operelor Plagiate în România de la									
	www.pla	agiate.ro								

SINTES 11:	
AUTOMATION:	<ul> <li>SYSTEMS FOR PRESSURE MONITORING AND CONTROL, USED IN INDUSTRIAL AUTOMATION PROCESSES - Diana Mura Badea</li> <li>REDUCED-ORDER MODELLS FOR ELECTROHYDRAULICAL SYSTEMS CONTROL - Eugen Bobasu, Dan Selisteanu</li> <li>LA COMMANDE OPTIMALE APRES LE CRITÈRE DE LA PERTE D'ENERGIE, DE L'ACCÉLERATION DES ENTRAINEMENTS ÉLECTRIQUES AVEC UN COUPLE STATIQUE AVEC DE COMPONENTE CONSTAINTE ET PROPORTIONELLE AVEC LA VITESSE ET L'INSTANT FINAL NON FIXE - Niculae Boteanu, Profit Degeratu, Marius Popescu</li> <li>FUZZY AND NEURAL MODELS FOR THE ACCUMULATION PROCESS OF THE PROTEIC MASS FROM SUPERIOR MUSHROOM MICELIUM OF POLYPORUS TYPE - Sergiu Caraman, Marian Barbu</li> <li>PREZICIAL CONTROL METHOD FOR MULTIVARIABLE SYSTEMS - Vasile Cirtoaje, Sanda Frâncu, Alina Bálesu</li> <li>OMPARISON BETWERN A THREE PHASE AND A TWO PHASE INDUCTION MOTOR BUILT UP ON THE SAME CORE - Gabriela Craciunas</li> <li>FIELD ORIENTED CONTROL OF A TWO PHASE INDUCTION MOTOR - Gabriela Cradunas</li> <li>STABILITY ANALYSIS OF CELLULAR NEURAL NETWORKS WITH TIME DELAYS - Daniel Danciu</li> <li>A ALTERNATIVE CONTROL FOR PROCESS IN FAULT CONDITIONS - Eugen Iancu, Matei Vinatou</li> <li>A POSSIBLE STRUCTURE FOR PHYSIOLOGICAL CONTROLLER - Ionela Iancu, Eugen Iancu</li> <li>A ALTERNATIVE CONTROL FOR PROCESS IN FAULT CONDITIONS - Eugen Iancu, Matei Vinatou</li> <li>LOGATR CONTROLLER DESIGN FOR ROTARY INVERTED PENDULUM QUANSER REAL- TIME EXPERIMENT - Cosmin Ionete</li> <li>OORTROL SUPPORT SYSTEM FOR THE LAROX PRESSURE FILTER - S-L. Jamsa- Jounela, M. Vermasvuori, J. Kampe, A. Kesti, Gabriel Vidub, Kari Koskela</li> <li>DORTRO SUPPORT SYSTEM FOR THE LAROX PRESSURE FILTER - S-L. Jamsa- JOURIA LORD SUPPORT SYSTEM FOR THE LAROX PRESSURE FILTER - S-L. Jamsa- JOURIA NERMEMENTATION OF INTERPOLATIVE TYPE CONTROLLERS - Adrian Korodi, Lucian Peana.</li> <li>ODRATOR SUPPORT SYSTEM FOR THE LAROX PRESSURE FILTER - S-L. Jamsa- JOURIA NERMEMENTATION OF INTERPOLATIVE TYPE CONTROLLERS - Adrian Korodi, Lucian Peana.<!--</td--></li></ul>
COMPUTERS ENGINEERING:	<ul> <li>REPRESENTATION OF E-DOCUMENTS IN AIDA PROJECT - Diana Berbecaru, Marius Marian</li> <li>ViReC PROJECT: LABORATORY WORK FOR COMPUTER ARCHITECTURE – THE INSTRUCTION SET OF A SIMPLE PROCESSOR VIP8 - Oleg Cernian, Eugen Dumitrascu, Adrian Neatu, Dumitru Ingeaua, Cornel Mitroi, Timothy Hall</li> <li>RMI APPLICATION FOR TRANSFERRING FILES - Nicolae Enescu, Eugen Dumitrascu, Gheorghe Marian</li> <li>CHANGING LEARNING PROCESSES AND ROLES TOWARDS LIFE AND WORK: A DISABLED PERSPECTIVE - Ileana Hamburg, Christiane Lindecke, Miona Lazea</li> </ul>

	<ul> <li>COLLABORATIVE DISTANCE LEARNING WITHIN LABORATORIES BY USING VIRTUAL ENVIRONMENT - Ileana Hamburg, Oleg Cernian, Dan Mancas, Nicolae Cismaru, Lucian Bărbulescu</li> </ul>
	<ul> <li>THE INFORMATION QUALITY- SOME CONSIDERATIONS - Augustin-Iulian Ionescu, Eugen Dumitrascu</li> </ul>
	<ul> <li>CNC FOR EDM MACHINE TOOL – HARDWARE STRUCTURE - Ioan Lemeni</li> <li>MOBILE DISTRIBUTED SOLUTION FOR DELIVERY AUTOMATION: DESIGN AND</li> </ul>
	PARTICULARITIES - Anita Lungu <ul> <li>ANALYZING TRAFFIC TOOLS ON AN IPsec COMMUNICATION LINK - Marin Lungu</li> </ul>
	<ul> <li>CRYPTANALISE ASPECTS ON THE BLOCK CIPHERS OF RC5 AND RC6 - Erica Mang,</li> </ul>
	Ioan Mang, Constantin Popescu
	TWO DIFFERENT ARCHITECTURES FOR THE HARDWARE IMPLEMENTATION OF THE RIJNDAEL ALGORITHM - Erica Mang
	<ul> <li>"ON LINE" TESTING FOR SOFTWARE DESIGN - Marian Gheorghe, Mihaiu Ilie Mircea Dumitrascu Eugen, Enescu Nicolae-Iulian</li> <li>Support for public-key infrastructures in DNS - Marius Marian, Diana Berbecaru</li> </ul>
	<ul> <li>A DIGITAL EQUIPMENT FOR MEASURING, RECORDING AND CONTROL OF THE RAILWAY VEHICLES' SPEED - Constantin Patrascu</li> </ul>
	<ul> <li>IMPLEMENTING LARGE DATASET SYNCHRONIZATION ON RESOURCE LIMITED</li> <li>MOBILE TERMINALS - Constantin Pistol</li> </ul>
	<ul> <li>BOUNDARY SCAN STANDARD – A PREREQUISITE THAT ENSURE GLOBAL HARDWARE SYSTEM QUALITY - Corneliu Popescu</li> </ul>
	THE PERFORMABILITY ANALYSIS FOR DIFFERENT KIND OF ADDERS - Daniela Elena Popescu
	XML MESSAGING: SIMPLE OBJECT ACCESS PROTOCOL (SOAP) - Gabriel Toma- Tumbar, Dan-Ovidiu Andrei
	<ul> <li>A ROUTING ALGORITHM FOR URBAN ADVISORY SYSTEM - Honoriu Valean, Tiberiu Letia, Adina Astilean</li> </ul>
	<ul> <li>SELECTING THE RIGHT SENSOR FOR TEMPERATURE MEASUREMENT - Mihai Bogdan, Maria Vintan</li> </ul>
	<ul> <li>QUALITY ASSURANCE BY AUTOMATED DEFECT DETECTION OF TEXTILE FABRICS - Raluca Brad, Remus Brad</li> </ul>
	THE ANALYSIS OF THE THREE PHASE RECTIFIER WITH SEVERAL PULSES - Danila Cerbulescu
	<ul> <li>ADAPTIVE NOTCH IIR FILTERS. AN IMPLEMENTATION ON MOTOROLA SC140 - Silviu Ciochina, Cristina Ciochina, Andrei Roman</li> <li>NUMERICAL OSCILLATIONS IN ELECTROMAGNETIC TRANSIENTS PROGRAMS - Liana</li> </ul>
	Cipcigan SIGNALLING IN TELECOMMUNICATION NETWORKS - Pompiliu Constantinache, Adrian
	Constantinache <ul> <li>A HIGH-FREQUENCY AND LOW-VOLTAGE CMOS AMPLIFIER - Elena Doicaru, Traian-</li> </ul>
	Titi Serban  METHOD OF COMPUTATIONAL INTELLIGENCE IN POWER ELECTRONICS - Adriana
ELECTRONICS:	Florescu, Dan Alexandru Stoichescu, Dumitru Stanciu <ul> <li>BIOMEDICAL SIGNAL ACQUISITION EQUIPMENT USING LABVIEW ENVIRONMENT - Beriliu Ilie</li> </ul>
	<ul> <li>GAS EXCHANGE CONCENTRATION RESPONSES DURING STRESS TEST WITH BRUCE</li> <li>PROTOCOL EXERCISE - Beriliu Ilie</li> </ul>
	<ul> <li>STEADY-STATE ANALYSIS OF COUPLED-INDUCTOR CUK PWM CONVERTER Part I: Continuous Conduction Mode - Elena Niculescu</li> </ul>
	STEADY-STATE ANALYSIS OF COUPLED-INDUCTOR CUK PWM CONVERTER Part II: Discontinuous Conduction Mode - Elena Niculescu
	<ul> <li>SHAPE RECOGNITION METHOD BASED ON THE k-NEAREST NEIGHBOR RULE - Dorina Purcaru</li> <li>NOVEL CURRENT AND VOLTAGE SENSORS FOR DIGITAL INSTRUMENTATION IN</li> </ul>
	POWER STATIONS - Traian-Titi Serban, Elena Doicaru  PHASE SHIFT AND POWER FACTOR DIGITAL METER - Traian-Titi Serban
	<ul> <li>A GENERALIZED SOLUTION FOR SLIDING MODE CONTROL - Dumitru Stanciu, Dan Alexandru Stoichescu, Adriana Florescu</li> </ul>
	<ul> <li>TRANSMISSION TOWER POTENTIALS DURING GROUND FAULTS - Maria VINTAN, Mihai BOGDAN</li> </ul>
	SOME RESULTS IN THE EVALUATION OF A SONAR SYSTEM FOR RECOGNITION OF THE ENVIRONMENT BY MOBILE ROBOTS - Dorel Aiordachioaie, Herbert Peremans, Andre Boen
MECHATRONICS:	<ul> <li>ON ESTIMATION OF THE ORIENTATION OF MOBILE ROBOTS USING SONAR INFORMATION AND TURNING FUNCTIONS - Dorel Aiordachioaie, Herbert Peremans,</li> </ul>
	Andre Boen <ul> <li>CONVENTIONAL CONTROL OF A SHAPE MEMORY ALLOY ROBOTICS UNIT - Nicu- George Bizdoaca, Elvira Bizdoaca, Sonia Degeratu</li> </ul>

<ul> <li>SINGLE LINK ROBOT ACTUATED WITH SHAPE MEMORY ALLOY - Nick-George Biddoes, Dankia Fana, Sonia Degorato, Elvira Biddoes, Cristina Pana, Markus Niculescu <ul> <li>AMECHATIRONICS APPLICATION - Dorian Cojucaru, Claudit Milest <ul> <li>AMECHATIRONICS APPLICATION - Dorian Cojucaru, Claudit Milest</li></ul></li></ul></li></ul>	1	
<ul> <li>A MECHATRONICS APPLICATION - Dorian Colocaru, Claudia Milosi</li> <li>Virtual Robol Centre - ELABORATORY SOLUTION - Ciprian Comes, Robert Mitrica, Mircea Nitulescu, Gabriel Viladui</li> <li>THE IMPLEMENTATION OF A PROGRAMMABLE LOGIC CONTROLLER FOR THE AUTOMATION OF THE BELT CONVEYOR - Mihal Dobriceanu, Akxandru Bitoleanu, Mihaela Popesu</li> <li>EXPERIMENTAL RESULTS CONCERNING THE MONITORING OF THE MACHINES' DIVISE IN CARRON EXPLOITATIONS - Mihal Dobriceanu, Akxandru Bitoleanu, Mihaela Popesu</li> <li>ASIN CONTROL FOR AN EXPLOITATIONS - Mihal Dobriceanu, Akxandru Bitoleanu, Mihaela Popesu</li> <li>ASIN CONTROL FOR AN ELECTRONKED LOGICAL FLUID ACTUATOR - Minalea Cellia Florescu, Anda Petrizea Adrian Dipticiu, Gheorgine Manolea</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHEDLOGICAL FLUID ACTUATOR - Mihaela Cellia Florescu, Anda Petrizea</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHEDLOGICAL FLUID ACTUATOR - Mihaela Cellia Florescu, Anda Petrizea</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminating Gurgiu</li> <li>HIGH PERFORMANCE ALCORTHINS IN FEEDFORWARD NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminating Gurgiu</li> <li>ON NEURAL NETWORK CLASSFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu</li> <li>ROLE OF AMIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY - Cristin Mathuela Hanako Matcovschi, Clavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH I HAEE PREE JOINTS - Company Minale Hanako Matcovschi, Clavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A MALKING ROBOT WITH I HAEE PREE JOINTS - Company Minale Hanako Matcovschi, Clavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A MALKING ROBOT WITH I HAEE PREE JOINTS - Company Minalea Partica</li> <li>MATHEMATICAL MODEL OF A MALKING ROBOT WITH I HAEE PREE JOINTS - Complements passe et within semicargenes - Serge Monchaud, Gabriel Waldui</li> <li>GENERAL DESIGNOT FREMOTE CONTROL VERSUS S</li></ul>		SINGLE LINK ROBOT ACTUATED WITH SHAPE MEMORY ALLOY - Nicu-George
<ul> <li>VITUAI ROBOT Center - E_LABORATORY SOLUTION - Ciprian Comsa, Robert Mirrica, Mirces Mirulescu, Gabriel Visidut</li> <li>THE IMPLEMENTATION OF A PROGRAMMABLE LOGIC CONTROLLER FOR THE ALTIOMATION OF THE BELT CONVEYOR. Mihal Dobriceanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>EXPERIMENTA RESULTS CONCERNING THE MONITORING OF THE MACHINES' DIRIVES IN CARBON EXPLOITATIONS - Mihal Dobriceanu, Alexandru Bitoleanu, Mihaela Drighidu</li> <li>APPLICATION DES RESEAUX DE PERI HYBRIDES A LETUDE DES SYSTEMES DE PERI - Mircea Adrian Drighidu</li> <li>APPLICATION DES RESEAUX DE PERI HYBRIDES A LETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighiciu, Cheorghe Manolea</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHELOGICAL FLUID ACTUATOR - Mihaela Cedilla Florescu, Anca Petrisor</li> <li>KNOWLEGGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Girgilu</li> <li>HIGH PERFORMANCE CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Oci Citu GA Mihaela - Manoka Mikovschi, Ochwana Pastravanu</li> <li>Cristian Mahalea, Mihaela - Manoka Makawa Mikovschi, Ochwana Pastravanu</li> <li>Cristian Mahalea, Mihaela - Manoka Mikovschi, Ochwana Pastravanu</li> <li>Cristian Mahalea, Mihaela - Manoka Makawa Matawa Pastravanu</li> <li>Cristian Mahalea, Mihaela - Manoka Makawa Matawa Pastravanu</li> <li>Cristian Mahalea, M</li></ul>		
<ul> <li>Mindes Milulescu, Gabriel Visuti</li> <li>THE MIPLIMENTATION OF A PROGRAMMABLE LOCIC CONTROLLER FOR THE AUTOMATION OF THE BELT CONVEYOR - Minal Dobricsanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>EXPERIMENTAL RESULTS CONCERNING THE MONITORING OF THE MACHINES' DRIVES IN CARRON EXPLOITATIONS - Minal Dobricsanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'ALDE DE RESEAUX DE PETRI - Mircoa Adrian Drightu</li> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CONTROL FOR AN ELECTRORHEDLOGICAL FLUID ACTUATOR - Minalo Ecolita Fiorescu, Anca Petrisor</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHEDLOGICAL FLUID ACTUATOR - Minalo Ecolita Fiorescu, Anca Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminitia Giurgiu</li> <li>HIGH PERFORMANCE ALCORTHMS IN FEEDFORWARD NEURAL NETWORKS BACKPROPACATION TRAINING - Luminitia Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Bastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASS STUDY - Cristian Mariu Aca. Petrisor</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH I HREE FREE JOINTS - Constainti Mariu, Ana. Petrisor</li> <li>PIRIzage a distance de systemes automatises et robotises - problemes poses et dis GENERAL DESIGN OF A DRIVEN WHELL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircen NILUISCU</li> <li>FUEZY CONTROL FOR ROBOTS DRIVINGS - Anca Petrisor, Marius Popescu, Dan Selisteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selisteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selisteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selisteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selisteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin P</li></ul>		
<ul> <li>THE IMPLEMENTATION OF A PROGRAMMABLE LOGIC CONTROLLER FOR THE AUTOMATION OF THE BELT CONVEYOR - Mihail Dobricoanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>EXPERIMENTAL RESULTS CONCERNING THE MONITORING OF THE MACHINES' DRIVES IN CARBON EXPLOITATIONS - Mihail Dobricoanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'AIDE DE RESEAUX DE PETRI - Mircea Adrian Originicu</li> <li>APPLICATION DES RESEAUX DE PETRI HYBRIDES A LETUDE DES SYSTEMES DE PRODUCTION A HAUTE CACINEC - MIRCEA Adrian Driphiciu, Cheorghe Manoles</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHEDLOGICAL FUID ACTUATOR - Mineda Cecilia Spicescu, Anda Petrisor</li> <li>Minata Decilia Spicescu, Anda Petrisor</li> <li>MIRCHARENCE AL CONTROL FOR AN ELECTRORHEDLOGICAL FUID ACTUATOR - Mineda Cecilia Spicescu, Anda Petrisor</li> <li>MIRCHARENCE AL CONTROL, FOR AN ELECTRORHAD. NEURAL NETWORKS BACKPROPAGATION TRAINING - Luminits Gurgulu</li> <li>ON NEURAL NETWORK CLASSFIERS WITH SUPERVISED TRAINING - Marius Kitotzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENCIMEERING - A CASE STUDY - Oristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATENATICAL MODEL OF A MARKING ROBOT WITH HAREF FREE JOINTS - Constantin Marino, Anda Petrisor</li> <li>PIOLAGE a distance de systems automatises et robotises - problemes poses et solutions envisages - Serge Monchaud, Gabriel Vladut</li> <li>GENERAL DESIGN OF A DRIVEN WHELEL MOBILE ROBOT WITH HAREF FREE JOINTS - Constantin Marin, Anda Petrisor</li> <li>PIARCAL DESIGN OF A DRIVEN WHELEL MOBILE ROBOT WITH HAREF FREE JOINTS - Constantin Marin, Anca Petrisor</li> <li>PIARCAL DESIGN OF A DAIVEN WHELEL MOBILE ROBOT WITH HAREF FREE JOINTS - Constantin Marin, Anca Petrisor</li> <li>PIARCAL DESIGN OF A DAIVEN WHELEL MOBILE ROBOT WITH HAREF FREE JOINTS - Constantin Marines Process SIMULATIONS - Dorin Popescu, Dan Selisteanu</li> <li>FREAL DESIGN OF ACCESSING MEDI</li></ul>		
AUTOMATION OF THE BELT CONVEYOR - Mihal Dobriceanu, Alexandru Bitoleanu, Mihaela Popascu • EXPERIMENTAL RESULTS CONCERNING THE MONTORING OF THE MACHINES' DRIVES IN CARBOY EXPLOITATIONS - Mihal Dobriceanu, Alexandru Bitoleanu, Mihaela Popascu • SUEL (JANALYSE DES SYSTEMES HYBRIDES A L'ETUDE DE SESAUX DE PETRI - Mircea Adrian Drighicu • APPLICATION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighicu, Gheorghe Manolea • SLOIDON GODE CONTROL FOR AN ELECTRORHEDGGICAL FLUID ACTUATOR - Mihaela Caelle Florescu, Ance Petrisor • RNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu • INCH PERFORMANCE ALGORITHMS IN FEEDFORWARD NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu • ON NEURAL NETWORK CLASSIFICES WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu • ROLE OF ANIARTININ TEACHINARE FOR CONTROL ENGINEERING - A CASE STUDY • Origite Mathematic Hamals Hariako Hatrovschi, Octavian Pastravanu • ROLE OF ANIARTININ TEACHINARE FOR CONTROL ENGINEERING - A CASE STUDY • Origite Mathematical Hamals Hariako Hatrovschi, Octavian Pastravanu • ROLE OF ANIARTININ TEACHINARE FOR CONTROL ENGINEERING - A CASE STUDY • Origite Mathematical More Ance Petrisor • CONTROL FOR ROBOTS DRIVINGS - Ance Petrisor, Marius Popascu, Mihaela Florescu • FUZ2Y CONTROL FOR ROBOTS DRIVINGS - Ance Petrisor, Marius Popascu, Dan Selesteanu • PARACLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidu Spatari, Anton Policec • FORCE PLATFORM FOR STATIC CADD DYNAMIC HUMAN STUDY - Ovidu Spatari, Anton Policec • ACONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Viorel Stolan • APPLED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie • ABOUT THE WAY CAI CAN CHANGE A DIFFICUIT TRAINING POOCES, IND A PLEASANT ADU USEFIC ATION METHOD DET STATIC DEFORMATION HUMAN LEG • ARDILER PROCESSING USING ROLE ACTIVITY DIACRAMS - Costin Badica, Amalia Badica • INDICATORS FOR TEXT RELEVANCE		
<ul> <li>POPescu</li> <li>EXPERIMENTAL RESULTS CONCERNING THE MONITORING OF THE MACHINES' DRIVES IN CARBON EXPLOITATIONS - Mihal Dobriceanu, Alexandru Bitoleanu, Mihaela Popescu</li> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'AIDE DE RESEAUX DE PETRI - Mircea Adrian Drighiciu</li> <li>APPLICATION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAURYSE DES CONTROL FOR AN ELECTRORHEDICAGICAL FLUID ACTUATOR - Mihaela Cecilia Floresu, Anca Petrisor</li> <li>SULDING MODE CONTROL FOR AN ELECTRORHEDICAGICAL FLUID ACTUATOR - Mihaela Cecilia Floresu, Anca Petrisor</li> <li>MINOLE EXTRACTION WITH COMPTON TRAINING - Luminits Giurgiu</li> <li>ON NUERAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Manuk Kloatzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY</li> <li>Cristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Anca Petrisor</li> <li>PIOLAGE a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud, Gabriel Viadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Mikulescu</li> <li>FUZZY CONTROL FOR ROBOTS DRIVINGS - Anca Petrisor, Marius Popescu, Dan Selistianu</li> <li>PARCALINI, MINESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - OLICE CONTROL RENOTE CONTROL VERSUS SIMULATIONS - Durin Popescu, Dan Selistianu</li> <li>PARCALINI, INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - OLICE CONTROL RENOTE CONTROL VERSUS SIMULATIONS - Outidu Spatari, Anton POICE</li> <li>PORCE MATHERMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie</li> <li>ABOUT THE WAY CAI CAN CHANGE A DITFICUL TRAINING PROCESSI IND A PLEASANT AND USEFICION EXPERIMENT. Redica Baciu, Dorin Sima</li> <li>GRAPHICAL MODELING OF RECURSION - Nadica Baciu, Dorin Sima</li> <li>GRAPHICAL MODELING OF RECURSION A</li></ul>		
<ul> <li>DRIVES IN CARBON EXPLOITATIONS - Mihai Dobriceanu, Alexandru Bitoleanu, Mihaela Popeseu</li> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'AIDE DE RESEAUX DE PETRI - Mircea Adrian Drighicu</li> <li>APPLICATION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighicu, Choenghe Manolea</li> <li>SLIDINS MODE CONTROL FOR AN ELECTRORHEOLOGICAL FLUID ACTUATOR - Mihaela Cecilia Florescu, Anca Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB</li> <li>ENVIROMENT - LUMINITA GUNGU</li> <li>HICH PERPORMANCE ALCORITHMS IN FEEDFORWARD NEURAL NETWORKS IN MATLAB</li> <li>ENVIROMENT - LUMINITA GUNGU</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY</li> <li>CRISTIA Mahulea, Mihaela-Hanako Matoxisch, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Maini, Ana Petrisor</li> <li>Filotage a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud, Gabriel Wadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PART STRORED IN MEMORY - Mircea MINUESCU</li> <li>FUZ2Y CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Mihaela Fioracu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selsiteanu</li> <li>PARACUTION FOR TATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policec</li> <li>APPLED MATHEMATICAL MODEL CONTROL VERSUS SIMULATIONS HOMAN LEG - Outrog Strong PORESS SIND A PLEASAMT AND USEFUL EXPERIMENT - ROBICE BACIU, DONIN STIMB</li> <li>GRAPHICAL MODELING OF RECURSION - MAGAR BACU, DOVIN STIMB</li> <li>GRAPHICAL MODELING OF RECURSION - MAGAR BACU, DOVIN STIMB</li> <li>GRAPHICAL MODELING OF RECURSION - MAGAR BACU, ONTEXT FREE NOTO A PLEASAMT AND USEFUL EXPERIMENT - ROBICE BAC</li></ul>		
<ul> <li>SURL (ANALYSE DES SYSTEMES HYBRIDES À L'AIDE DE RESEAUX DE PETRI - Mircea Adrian Drighicu</li> <li>APPLICATION DES RESEAUX DE PETRI HYBRIDES À L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighiciu, Gheorghe Manolea SULING MODE CONTROL FOR AN ELECTRORHEOLOCICAL FLUTD ACTUATOR - Minaela Cecilia Florescu, Anca Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu</li> <li>HICH PERFORMANCE ALCORTITHMS IN FEEDFORWARD NEURAL NETWORKS BACKROPAGATION TRAINING - Luminita Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Klortzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY - Cristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHÉMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Anca Petrisor</li> <li>Pilotage a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud, Gabriel Viadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Nitulescu</li> <li>FUZZY CONTROL FOR ROBOTS DRIVINGS - Anca Petrisor, Marius Popescu, Dan Sellsteanu</li> <li>PRAELING INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policec</li> <li>FORCE PLATORMENTICS FOR HEAT TRANSFER - Razvan Tudor Transie</li> <li>ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima</li> <li>BUSINSS PROCESS MODELING OF RECUSION - Coldica Baciu, Dorin Sima</li> <li>GRAPHICAL MODELING OF RECUSION - Rodica Baciu, Dorin Sima</li> <li>GRAPHICAL MODELING OF RECUSION - Rodica Baciu, Dorin Sima</li> <li>BUSINSS PROCESS MODELING OF RECUSION - THE REPLUID BASED DAMPER - Viorel Stolan</li> <li>ARPUELD MATHÉMATICS FOR HEAT TRANSFER - Razvan Tudor Transie</li> <li>ABOUT THE WAY CAI CAN CHANGE A</li></ul>		
<ul> <li>SUR L'ANALYSE DES SYSTEMES HYBRIDES A L'AIDE DE RESEAUX DE PETRI - Mircea Adrian Drighiciu</li> <li>APPLICATION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighiciu, Cheorghe Manolea</li> <li>SUDING MODE CONTROL FOR AN ELECTRORHEOLOGICAL FLUID ACTUATOR - Minaela Ceellia Florescu, Ance Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu</li> <li>HIGH PERFORMANCE ALGORITHMS IN FEEDFORWARD NEURAL NETWORKS BACKPROPAGATION TRAINING - Luminita Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY</li> <li>Cristian Mahulea, Mhaela-Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Anca Petrisor</li> <li>Pilotage a distance de systemes automatises et robotises - problames poses et solutione envisagees - Serge Monchaud, Gabriel Viadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea INTERSTICATION WETHOD OF STATIC DEFORMATION HUMAN LEG - OLING envisagees - Serge Monchaud, Gabriel Viadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea INTERISTICATION METHOD OF STATIC DEFORMATION HUMAN LEG - OLING epitari, Anton Policec</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selsteanu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATION HUMAN LEG - OLING epitari, Anton Policec</li> <li>ADRUTCE FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Viorel Stain</li> <li>APPLIED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasle</li> <li>ABOUT THE WAY CAL CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USEFUL EXPERIMENT - ROGICA BAGIN, DOTIN SIMA BUSINSS PROCESSING OF RECURSION - MAGER BROB</li></ul>		
Adrian Drighiciu APPLICATION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighiciu, Gheorghe Manolea SLIDING MODE CONTROL FOR AN ELECTRORHEOLOGICAL FLUID ACTURCR - Mihaela Cecilia Florescu, Anca Petrisor R KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu U H (HGH PERFORMANCE ALCORITHMS IN FEEDFORWARD NEURAL NETWORKS BACKPROPAGATION TRAINING - Luminita Giurgiu U ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu U R CIC OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY - Cristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu U T THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Anca Petrisor U R CICL OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY - Cristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu U T THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH A PART STRORED IN MEMORY - Mircea Nitulescu U U T THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH A PART STRORED IN MEMORY - Mircea Nitulescu U U E VELZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Mihaela Florescu U R RAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Selsteanu U R RALCLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policec U A CONTROLLER FOR A HADICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Viorel Stolan U A RAPULED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie U A CONTROLLER FOR A HADICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - VIOREI STOIAN U ASPECTS OF AUTOMATIC SPEECH RECOGNITION BASED ON CONTEXT FREE GRAMMARS FOR NON-NATIVE SPECKRES - AIM Bagan-Marta, Nicolae Robu U A SSPECTS OF AUTOMATIC SPEECH RECOGNITION BASED ON CONTEXT FREE GRAMMARS FOR NON-NATIVE SPECKRES SING N - Macarie Breazu, Antoniu Pittc, Daniel Volovici, Remus Brad USINSS PROCESS NOELLING CHARGES SYSTEM - Gabriel Dragomir U HUDENTIFICATION TO APTERMARKING SY ALTE		
APPLICĂTION DES RESEAUX DE PETRI HYBRIDES A L'ETUDE DES SYSTEMES DE PRODUCTION A HAUTE CADENCE - Mircea Adrian Drighiciu, Cheorghe Manolea     SILDING MODE CONTROL FOR AN ELECTRORHEOLOGICAL FLUID ACTUATOR - Mihaela Cecilia Florescu, Anca Petrisor     KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu     HIGH PERFORMANCE ALGORITHMS IN FEEDFORWARD NEURAL NETWORKS     BACKROPAGATION TRAINING - Luminita Giurgiu     ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer,     Octavian Pastravanu     ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - A CASE STUDY     - Cristian Mabula, Mhaela-Hanako Matcoxechi, Octavian Pastravanu     THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS -     Constain Marin, Anaa Petrisor     Pilotage a distance de systemes automatises et robotises - problemes poses et     solutions envisagues - Serge Monchaud, Gabriel Vladut     GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN     MEMORY - Mircen Nitulescu     FUZZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Dan     Selistenu     FUZZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Dan     Selistenu     REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan     Selistenu     RARCLINC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG -     Ovidiu Spatari, Anton Palicec     FORCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton     PPICED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie     ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A     PLEASANT AND USEFUL EXPERIMENT - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF RECURSION - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF RECURSION - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF REXCURSION - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF REXCURSION - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF REXCURSION - ROGICa Baciu, Dorin Sima     GRAPHICAL MODELING OF TEXPEREES		
<ul> <li>PRODUCTION A HAUTE CADENCE - Mirces Adrian Drighiclu, Gheorghe Manolea</li> <li>SLIDING MODE CONTROL FOR AN ELECTRONERLEQUGICAL FLUID ACTUATOR - Mihaela Caelila Florescu, Anca Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu</li> <li>HIGH PERFORMANCE ALCORITHMS IN FEEDFORWARD NEURAL NETWORKS BACKPROPAGATION TRAINING - Luminita Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kleetzer, Octavian Pasitavianu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENCINEERING - A CASE STUDY</li> <li>Cristian Mahules, Mihaela-Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE DINTS - Constantin Main, Anca Petrisor</li> <li>Pilotage a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud. Gabriel Viadut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Mitolescu</li> <li>FUZ2Y CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Mihaela Filorescu</li> <li>REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Popescu, Dan Sellisteanu</li> <li>PARACLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policec</li> <li>FORCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policec</li> <li>A CONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID BASED DAMPER - Viorel Stolain</li> <li>APPLIED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie</li> <li>ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USES MODELLING USING ROLE ACTIVITY DIAGRAMS - Costin Badica, Amaila Badica</li> <li>INDICATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THEORY FIELD - Alina Bogan-Marta, Nicolae Robu</li> <li>NEARCH LUNG FOR WALE WATERMARKING - Claudiu Chinu</li> <li>DIGATAL MAGE PROCESSING OF RECURSION - Mocine Brea</li></ul>		5
<ul> <li>SLIDING MODE CONTROL FOR AN ELECTRORHEOLOGICAL FLUID ACTUATOR - Mihaela Cedilia Florescu, Ance Petrisor</li> <li>KNOWLEDGE EXTRACTION WITH COMPTITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu</li> <li>HIGH PERFORMANCE ALCORITHMS IN FEEDFORWARD NEURAL NETWORKS BACKPROPAGATION TRAINING - Luminita Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY - Cristian Mahulea, Mhaela-Hanako Matdovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Ance Petrisor</li> <li>Pilotage a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud, Gabriel Vladut</li> <li>GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Nitulescu</li> <li>FUZ2Y CONTROL FOR ROBOTS DRIVINGS - Anca Petrisor, Marius Popescu, Dan Selisteanu</li> <li>PIRARCLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Oudiu Spatari, Anton Policec</li> <li>FORCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policec</li> <li>A CONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Vionel Stolan</li> <li>APPLIED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasle</li> <li>ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima</li> <li>GRAHHICAL MODELING OF RECURSION - Rodica Baciu, Dorin Sima</li> <li>BUSINSS PROCESS MODELLING USING ROLE ACTIVITY DIAGRAMS - Costin Badica, Amaila Badica</li> <li>INDICATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION IHEGRAPHICAL MODELING OF RECURSION - NEGLEB BACU, DOIN SIMA</li> <li>BUSINSS PROCESS MODELLING OF RECOGNITION ASED ON CONTEXT FREE GRAMAMARS FOR RON-NATIVE SPERARESSION - Macarie Breazu, Antoniu Phil, Daniel Volovici, Rem</li></ul>		
Mihaela Cacilla Florescu, Anca Petrisor • KNOWLEDGE STRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIRONMENT - Luminita Giurgiu • ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, • On NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, • Ortavian Pastravanu • ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY • Cristian Mahulea, Mihaela-Hanako Matcovschi, Octavian Pastravanu • THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Anca Petrisor • Filotage a distance de systemes automatises et robotises - problemes poses et solutions envisages - Serge Monchaud, Gabriel Vladul • GENERAL DESIGN OF A DRIVEN WHEEL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Minca Nitulescu • FUZZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Mihaela Florescu • REAL ROBOT REMOTE CONTROL VERSUS SIMULATIONS - Dorin Papescu, Dan Selisteanu • PARACLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policee • FORCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policee • A CONTROLLER OR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policee • A CONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DMMPE - Viorel Stolan • APPLIED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie • ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND DEFUL EXPERIENT - Rodica Baciu, Dorin Sima • GRAPHICAL MODELLING OF RECURSION - Macarie Breazy, Antonu Phile, Daniel • DIMARY - SUCSES MODELLING USING ROLE ACTIVITY DIAGRAMS - Costin Badica, • INDICATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THEORY FIELD - Alina Bogan-Marta, Nicolae Robu • NEAR-LOSSLESS LZW IMAGE COMPRESSION - Macarie Breazy, Antonu Phile, Daniel Violovici, Remus Brad • SAULTOMATIC SPECKERS - Alina Bogan-Marta, Nicolae Robu • NEAR-LOSSLESS LZW IMAGE COMPRESSION - Macarie Breazy, Antonu Phile, Daniel Violovici, Remus Brad • DYNAM		
KNOWLEDGE EXTRACTION WITH COMPETITIVE NEURAL NETWORKS IN MATLAB ENVIROMENT - Luminita Giurgiu     HIGH PERFORMANCE ALGORITHMS IN FEEDFORWARD NEURAL NETWORKS BACKROPAGATION TRAINING - Luminita Giurgiu     ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravau     ROLE OF ANIMATION IN TEACHWARE FOR CONTROL ENGINEERING - A CASE STUDY Cristian Manulea, Mihaela-Hanako Matcovachi, Octavian Pastravanu THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constantin Marin, Ance Petrisor Philotage a distance de systemes automatises et robotises - problemes poses et solutions envisagees - Serge Monchaud, Gabriel Vladut GENERAL DESIGN OF A DRIVEN WHELE MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Nitulesu FUZ2Y CONTROL FOR ROBOT'S DRIVINGS - Ance Petrisor, Marius Popescu, Mihaela Florescu PRACLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policec PROCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policec A CONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Viorel Stolan APPLED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima GRAPHIED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEDS NTO AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima BUSINS PROCESS MODELING USING ROLE CATIVITY DIAGRAMS - Costin Badica, AMOUTS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THERA-LOSSESS LZW IMAGE COMPRESSION - Macarie Breazu, Antoniu Pitic, Daniel VIOCATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THERA-LOSSES LZW IMAGE COMPRESSION - Macarie Breazu, Antoniu Pitic, Daniel VIDICATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THERA-LOSSES LZW I		
<ul> <li>ENVIRONMENT - Luminita Giurgiu</li> <li>ENGLEPT - Luminita Giurgiu</li> <li>ON NEURAL NETWORK CLASSIFIERS WITH SUPERVISED TRAINING - Marius Kloetzer, Octavian Pastravanu</li> <li>ROLE OF ANIMATION IT EACHWARE FOR CONTROL ENGINEERING - A CASE STUDY</li> <li>Cristian Manuea, Minaela - Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A WALKING ROBOT WITH THREE FREE JOINTS - Constain Manuea, Minaela - Hanako Matcovschi, Octavian Pastravanu</li> <li>THE MATHEMATICAL MODEL OF A VALKING ROBOT WITH THREE FREE JOINTS - Constain Marin, Anca Petrisor</li> <li>Pilotage a distance de systemes automatises et robotises - problemes poses et solutions envisages - Serge Monchaud, Gabriel Vladut</li> <li>GENERAL DESIGN OF A DRIVEN WHELL MOBILE ROBOT WITH A PATH STRORED IN MEMORY - Mircea Nitulescu</li> <li>FUZZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Mihaela Florescu</li> <li>FUZZY CONTROL FOR ROBOT'S DRIVINGS - Anca Petrisor, Marius Popescu, Dan Selisteanu</li> <li>PRARCLINIC INVESTIGATION METHOD OF STATIC DEFORMATION HUMAN LEG - Ovidiu Spatari, Anton Policec</li> <li>FORCE PLATFORM FOR STATIC AND DYNAMIC HUMAN STUDY - Ovidiu Spatari, Anton Policec</li> <li>A CONTROLLER FOR A HANDICAPPED MEN VEHICLE SEAT WITH ERFLUID-BASED DAMPER - Viorel Stolan</li> <li>APPLED MATHEMATICS FOR HEAT TRANSFER - Razvan Tudor Tanasie</li> <li>ABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING PROCESS INTO A PLEASANT AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima</li> <li>GRAPHICAL MODELING OF RECURSION - Rodica Baciu, Dorin Sima</li> <li>BABOUT THE WAY CAI CAN CHANGE A DIFFICULT TRAINING ROCES INTO A PLEASANT AND USEFUL EXPERIMENT - Rodica Baciu, Dorin Sima</li> <li>BUSINSS PROCESS MODELLING USING ROLE ACTIVITY DIAGRAMS - Costin Badica, Amaile Badica</li> <li>INDICATORS FOR TEXT RELEVANCE USING TECHNIQUES FROM INFORMATION THEORY FIELD - Alina Bogan-Marta, Nicolae Robu</li> <li>NEAR-LOSSLESS LZW IMAGE COMPRESSI</li></ul>		
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<ul> <li>ENGINEERING:</li> <li>PROGRAM - Claudiu Chiru</li> <li>STATIC SOFTWARE WATERMARKING - Claudiu Chiru</li> <li>DIGITAL IMAGE PROCESSING IN MEDICINE - Doru Cioata, Cristian Iacob, Mihaela Cioata</li> <li>A SIMPLE WAY TO CAPTURE NETWORK TRAFFIC: THE WINDOWS PACKET CAPTURE (WINPCAP) ARCHITECTURE - Mihai Dorobantu, Mihai L. Mocanu</li> <li>IDENTIFICATION IN A DISTRIBUTED DATABASE SYSTEM - Gabriel Dragomir</li> <li>IMPOSED CONDITIONS TO DATABASE SCHEMA IN DISTRIBUTED DATABASE DESIGN - Gabriel Dragomir</li> <li>IMAGE - SHAPE RECOGNITION - Eugen Ganea, Mihai L.Mocanu</li> <li>A COMPARATIVE STUDY OF DISTRIBUTED ALGORITHMS IN MINING ASSOCIATION RULES - Cornelia Gyorodi</li> <li>DATABASE SECURITY MECHANISM - Dorin Iordache</li> </ul>		
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<ul> <li>DIGITAL IMAGE PROCESSING IN MEDICINE - Doru Cioata, Cristian Iacob, Mihaela Cioata</li> <li>A SIMPLE WAY TO CAPTURE NETWORK TRAFFIC: THE WINDOWS PACKET CAPTURE (WINPCAP) ARCHITECTURE - Mihai Dorobantu, Mihai L. Mocanu</li> <li>IDENTIFICATION IN A DISTRIBUTED DATABASE SYSTEM - Gabriel Dragomir</li> <li>IMPOSED CONDITIONS TO DATABASE SCHEMA IN DISTRIBUTED DATABASE DESIGN</li> <li>Gabriel Dragomir</li> <li>IMAGE - SHAPE RECOGNITION - Eugen Ganea, Mihai L.Mocanu</li> <li>A COMPARATIVE STUDY OF DISTRIBUTED ALGORITHMS IN MINING ASSOCIATION RULES - Cornelia Gyorodi</li> <li>DATABASE SECURITY MECHANISM - Dorin Iordache</li> </ul>	ENGINEERING:	PROGRAM - Claudiu Chiru
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DATABASE SECURITY MECHANISM - Dorin Iordache		
	1	

 GEOMETRIC SHAPE RECOGNITION USING FUZZY AND NEURAL TECHNIQUES - Ioan Mihu, Arpad Gellert, Cosmin Suciu
 DESIGN AND EVALUATION OF A HIERARCHICAL ARCHITECTURE FOR HANDWRITTEN CHARACTER RECOGNITION - Ioan Mihu, Horia Caprita
 MMDB: NICE - MULTIMEDIA IMAGE DATABASE WITH IMAGE CONTENT SEARCHING -Muguras Mocofan
 DATA MODELS FOR VIRTUAL REALITY - Gabriel Muresan, Liana Stanescu, Dumitru Dan Burdescu
 INFORMATION ARCHITECTURE FOR STEEL - Madhurak Rajagopal, Gabriel Vladut
 ALGORITHM FOR OPTIMAL IMPLEMENTATION OF MULTIPLE-VALUED FUNCTIONS USING SWITCHES - Dorin Sima, Rodica Baciu
 SEARCHING THE WEB WITH HAND-HANDLED DEVICES - Dorin Sima, Rodica Baciu
 SINGLE AND MULTIPLE REGIONS QUERY WITH ABSOLUTE SPATIAL LOCALIZATION -Liana Stanescu, Dumitru Dan Burdescu, Gabriel Muresan

# **CRYPTANALISE ASPECTS ON THE BLOCK CIPHERS OF RC5 AND RC6**

Erica Mang, Ioan Mang, Constantin Popescu University of Oradea, Romania Department of Computers Science 3-5 Armatei Romane St., 3700 Oradea, Romania E-mail: <u>emang@uoradea.ro</u>, <u>imang@uoradea.ro</u>, <u>ppopescu@uoradea.ro</u>

Abstract. In August 1999, Knudsen and Meier proposed an attack to the block cipher RC6 by using correlations derived from  $x^2$  tests. In this paper, we improve the attack and apply this method to the block cipher RC5 and simplified variants of RC6, and show some experimental results. We show this approach distinguish the random permutation and RC5 with of up to 20 rounds by using chosen ciphertexts attack. We also show our approach for deriving the last round key of up to 17 rounds RC5 by using chosen plaintext attack. Moreover, we show full rounds RC5 with some weak key can be broken by using lesser complexity than that of the exhaustive search. Additionally, this method can be applicable to simplified variants of RC6, that is, RC6-INFR, RC6-NFR, RC6-I, we observe the attack to these block ciphers.

*Key words*: RC5, RC6, chosen ciphertexts attack, chosen plaintext attack, weak key

## 1. Introduction

RC5 is a block cipher designed by R. Rivest in 1994 (Rivest 1995). One of the reasons that many cryptographers were interested in cryptanalysis of RC5 comes from its simple structure.

Kaliski and Yin evaluated RC5 with respect to differential and linear crypt-analysis (Kaliski 1995). The paper shows that linear cryptanalysis is applicable for versions of RC5 with a small number of rounds. Moriai et al., found some weak key against linear attack (Rivest 1995). An improvement of Kaliski and Yin's attack by a factor of up to 512 was given by Knudsen and Meier (Knudsen 1996). Biryukov and Kushilevitz proposed drastic improvement of the previous results due to a novel practical differential approach (Biryukov 1998). Their attack requires 244 chosen plaintexts which is smaller than complexity of exhaustive key search. In their approach, they study more complex differentials than in previous works, and defined a more general notation, so called "good pair," with respect to data dependent rotations. In their method, good pairs were searched by using Hamming weights of differences for each round, then the key of last round were derived.

Their attacking algorithm, however, is rather complicated and it does not seem so easy to distinguish good pair and others correctly, because of influences of addition of key to the hamming weights of differentials.

In August 1999, Knudsen and Meier posted to the internet news an information of their new paper dealing with cryptanalysis of RC6 (Knudsen et al. 1999). In the paper, they used extremely different technique from the previous approach, that is, correlations obtained from  $x^2$ test. In their approach, for fixing each of the least significant five bits in some words of plaintexts and investigate the statistics of the 10-bit integer obtained by concatenating each of the least significant five bits in some words of ciphertexts. To measure the effect of the distribution of the target bits, they forced the values of 10 bits by taking appropriate plaintexts and they computed the  $x^2$ -value of the 10 bit integers, then they compared to  $x^2$ -distribution with 1023 freedom, and distinguished RC6 from a random permutation. They estimated from systematic experimental results that version of RC6 whose round is reduced can be distinguished from a random permutation. Moreover, they constructed a key-recovery method for RC6 with up to 15 rounds which is faster than exhaustive key search.

In this paper, we improve the Knudsen and Meier's attacking algorithm obtained from  $x^2$  tests, and apply this to the RC5 encryption algorithm. Then we show the experimental results of attacking the RC5 with reduced rounds. Our computatinal experiments show that RC5 with up to 20 half rounds can be distinguished from a random permutation by using  $2^{54}$  chosen ciphertext. Moreover, we show that full round RC5 with a weak key which is available one in  $2^{20}$  keys is distinguishable from random permutation with less than complexity of exhaustive key search.

Furthermore, we construct an algorithm for key recovery using the correlation and show the computational experiments. From our experiments, we conclude that the last round key of RC5 with up to 17 half rounds, or RC5 with up to full round with respect to a weak key can be recovered by using  $2^{54}$  chosen plaintext attack with success probability 80%.

At last, we observe the strength of the simple variants of RC6 demonstrated in (Contini 1999), that is RC6-INFR, RC6-NFR and RC6-I, against our improved attacking algorithms. Then we show RC6-INFR, RC6-NFR with up to 19 rounds, and RC6-I with up to 15 rounds are breakable for our improved distinguishing algorithm. Moreover we show full round RC6-INFR, RC6-NFR with respect to a weak key existing in a ratio of one to  $2^{45}$  are breakable by using our distinguishing attack.

# 2. Preliminary

In this section, we note some notations and definitions. At first, we recall the  $x^2$  tests for distinguishing a random sequence taking from uniform distribution and non-random sequence (Contini 1999).

**Proposition 2.1.** Let A be a set  $\{a_0,...,a_{m-1}\}$ . Let  $X=X_0,...,X_{n-1}$  be independent and identically distributed random variables taking from the set A uniformly. Let  $N_{aj}(X)$  be the cardinality of variables in X which is equal to  $a_i$ .

	Table 1. The chi-square distributions with and 1023 degrees of freedom											
Level	0.5	0.90	0.95	0.99	0.999							
$X^2$	30.33	41.42	44.99	52.19	61.09							
		X <sup>2</sup> distribution of 3	1 degrees of freedom	1								
Level	0.5	0.90	0.95	0.99	0.999							
$X^2$	1022.0	1080.94	1098.92	1130.89	1168.85							

 $X^2$  distribution of 1023 degrees of freedom

The  $X^2$  statistic  $X^2(X)$  of X is defined by

$$X^{2}(X) = \sum_{i=0}^{m-1} \left( N_{ai}(X) - \frac{n}{m} \right)$$

Then, the distributions of  $X^2(X)$  can be approximated to the chi-square distribution with m-1 degrees of freedom for large n.

Table 1 shows the chi-square distributions with 31 degrees and 1023 degrees of freedom, which we will use in the following sections.

For example, level=0:999 and 2 = 61.09 in Table 1 means that  $X^2$  values of 99.9% of random sequences with n elements taking from the set of 32 elements uniformly will not exceed 61.09 for large *n*. We comment that, for  $X^2$  tests, n should be large enough such that each expected value of  $N_{ai}$  (X) (that is, n/m) is larger than 4 or 5, in practical.

Is5(A): least significant 5 bits of a 32 a bits word A (A, B): plaintext of RC5 (32 bits \* 2) (A', B'): ciphertext of RC5 (32 bits \* 2) (A<sub>i</sub>, B<sub>i</sub>): output of i<sup>th</sup> half round, especially, (A<sub>0</sub>, B<sub>0</sub>) = (A, B) and (A<sub>r</sub>, B<sub>r</sub>) = (A, B) x<sub>i</sub>: amounts of data dependent rotation in the i-th half round, that is Is5(A<sub>i</sub>) y<sub>i</sub>: x<sub>r-i+1</sub>

# 3. X<sup>2</sup> Tests of RC5

In this section, we explain the  $X^2$  tests for plaintexts and ciphertexts of RC5. The notations are followed from the previous section. We examine 4 different types of  $X^2$ tests. For each test, we observe the  $X^2$  statistics of 5 bit in the plaintexts or ciphertexts.

*Test1:* Fix least significant 5 bits of plaintext A to 0, and compute  $X^2$  of least significant 5 bits of ciphertext A'. *Test2:* Fix least significant 5 bits of plaintext A and B to 0 and compute  $X^2$  of least significant 5 bits of ciphertext A'.

*Test3:* Fix least significant 5 bits of ciphertext B' to 0, and compute  $X^2$  of least significant 5 bits of plaintext B. *Test4:* Fix least significant 5 bits of ciphertext A' and B' to 0 and compute  $X^2$  of least significant 5 bits of plaintext B.

If RC5 was ideal random permutation, the distribution of the  $X^2$  value is similar to the  $X^2$  distribution of  $31=2^5-1$  degrees of freedom. So, we set up the threshold by 45 in order to distinguish from a random permutation. The sequence whose  $X^2$  value extends more than 45 can be distinguished from a random permutation in a probability of 95 %. (Table 1).

Table 2 shows the results of  $X^2$  tests. Each entry of  $X^2$  value is an average of 100  $X^2$  values of different 100 keys.

The numbers denoted by bold character are the  $X^2$  values at the first coming over 45. These experiments show that each additional two half rounds require about  $2^6$  times as many texts to get about the same  $X^2$  value. The results of the Test 1 and Test 3 show that the each number of required data is almost same. On the other hand, each the number of required elements in Test 2 is  $2^3$  times as many as corresponding one of Test 4, because of the influences of the initial key S[1]. It means that if the value of data dependent rotation at the first round is fixed 0, the  $X^2$  value of the target bits in the output of last round becomes much larger.

## 4. Distinguishing Algorithm and Weak Key

By the examination described in the previous section, we conclude that the better way in order to distinguish the RC5 encryption and a random permutation in the four conditions described in Test1 to Test4, is the condition in Test4. We consider a following algorithm. It is one of the chosen ciphertext attacks. *Algorithm 4.1. (Distinguishing attack)* 

Algorunm 4.1. (Distinguishing utuck)

Input: RC5 algorithm permutation, n: a number; Output: answer that Input is RC5or not ; for i from 1 to n

Let A', B' be a random number such that ls5(A') = ls5(B') = 0;

(A, B) = decrypted message of (A', B');

count up the counter map[ls5(B)];

calculate X<sup>2</sup> of the map; if x<sup>2</sup>≥45 then return the answer "Input is RC5"; else return the answer "Input is a random permutation";

Table 2. Evaluations of the X<sup>2</sup> tests (Test1,...,Test4, average of 100 keys)

Test 1(fix ls5(A) = 0)

Test 2 (fix ls5(A) = ls5(B) = 0)

4 half rounds						4 half rounds							
#data	$2^{10}$	211	2 <sup>12</sup>	2 <sup>13</sup>	2 <sup>14</sup>	2 <sup>15</sup>	#data	2 <sup>6</sup>	27	2 <sup>8</sup>	2 <sup>9</sup>	2 <sup>10</sup>	2 <sup>11</sup>
$X^2$	30	33	37	41	47	66	$X^2$	31	31	34	40	57	82
6 half rounds												6 half rounds	
#data	2 <sup>16</sup>	2 <sup>17</sup>	2 <sup>18</sup>	2 <sup>19</sup>	$2^{20}$	2 <sup>21</sup>	#data	2 <sup>12</sup>	2 <sup>13</sup>	2 <sup>14</sup>	2 <sup>15</sup>	2 <sup>16</sup>	2 <sup>17</sup>
$X^2$	30	31	34	41	52	70	$X^2$	29	32	35	40	47	61
				3	8 half r	ounds							8 half rounds
#data	$2^{22}$	$2^{23}$	$2^{24}$	$2^{25}$	$2^{26}$	2 <sup>27</sup>	#data	$2^{18}$	2 <sup>19</sup>	$2^{20}$	$2^{21}$	$2^{22}$	$2^{23}$
$X^2$	29	31	31	34	46	63	$X^2$	32	32	36	42	55	81
				1(	) half r	ounds							10half rounds
#data	$2^{28}$	2 <sup>29</sup>	$2^{30}$	$2^{31}$	$2^{32}$	2 <sup>33</sup>	#data	$2^{24}$	$2^{25}$	$2^{26}$	2 <sup>27</sup>	$2^{28}$	2 <sup>29</sup>
$X^2$	31	31	32	35	51	72	$X^2$	32	33	36	42	55	81

Test 3 (fix ls5 (A') = 0)

Test 4 (fix ls (A') = ls5(B') = 0)

4 half round	4 half rounds												
#data	2 <sup>10</sup>	211	2 <sup>12</sup>	2 <sup>13</sup>	2 <sup>14</sup>	2 <sup>15</sup>	#data	$2^{3}$	2 <sup>4</sup>	2 <sup>5</sup>	2 <sup>6</sup>	27	2 <sup>8</sup>
$X^2$	31	32	34	38	47	59	$X^2$	12	11	39	48	62	94
6 half round	ds						6 half round	ds					
#data	$2^{16}$	$2^{17}$	$2^{18}$	2 <sup>19</sup>	$2^{20}$	$2^{21}$	#data	2 <sup>9</sup>	$2^{10}$	211	$2^{12}$	$2^{13}$	2 <sup>14</sup>
$X^2$	30	33	35	40	49	66	$X^2$	32	34	36	39	47	60
8 half roun	lds						8 half rounds						
#data	2 <sup>22</sup>	$2^{23}$	$2^{24}$	$2^{25}$	$2^{26}$	2 <sup>27</sup>	#data	2 <sup>15</sup>	2 <sup>16</sup>	$2^{17}$	2 <sup>18</sup>	2 <sup>19</sup>	$2^{20}$
$X^2$	29	31	31	34	46	63	$X^2$	32	34	38	44	65	101
10 half rou	nds						10 half rounds						
#data	$2^{28}$	2 <sup>29</sup>	$2^{30}$	2 <sup>31</sup>	$2^{32}$	$2^{33}$	#data	$2^{21}$	$2^{22}$	$2^{23}$	2 <sup>24</sup>	$2^{25}$	$2^{26}$
$X^2$	30	31	33	35	50	69	X <sup>2</sup>	32	34	35	42	56	85

In order to estimate the complexity of Algorithm 4.1, we compute the number of required elements that the  $X^2$  value exceeds the 45 more precisely, for each rounds of RC5. Table 3 shows the results. From Table 3, we calculate the relation between the number of required elements and the number of rounds by using the method of least squares;

 $log_2(\#data) = \alpha + \beta r + \varepsilon$ ,

where *r* is a number of half rounds and  $\varepsilon$  is a bias. Then we have  $\alpha$ =-5.33,  $\beta$ =2.97,  $\varepsilon$ =0.17. This means that each additional one half rounds, Algorithm 4.1 requires almost 2<sup>3</sup> times as many texts to get about the same X<sup>2</sup> value on average.

Table 4 shows that the estimated number of required texts for Algorithm 4.1. In Algorithm 4.1, since the 10 bits in cipher text bits are fixed zero, the total amounts of admissible texts is  $2^{54}$ . From Table 4, (by omitting the small bias) our distinguish attack can be applicable reduced RC5 with up to 20 half rounds.

Now, we consider the weak key. From the assumption of Algorithm 4.1, amount of a data

dependent rotation in the last round is fixed 0. Moreover if the condition ls5(S[r+1])=0 holds, the amount of rotations of last two rounds are 0. In this case, the last round does not influence the X<sup>2</sup> value, that is the security level is equal to that of r-1 rounds RC5. This case happen every one in 2<sup>5</sup> keys. In the same way, if the condition

$$s5(S[r+1]) = \dots = ls5(S[r-t+2]) = 0$$

holds, the security level against Algorithm 4.1 is as same as r - t rounds RC5. There is one weak key in  $2^{5t}$ .

Since, it is easy to check whether the key is a weak key or not, we can find the following weak key.

 $key_0 = \{5b, 2d, 16, 0b, 7a, 3d, 9e, cf, 7e, 3f, 9f, cf, af, d7, eb, 75\}_{16}$ 

In this key, we can check:

$$ls5(S[19]) = \dots = ls5(S[25]) = 0.$$

Therefore the 24 half round RC5 encryption with key0 has the same security as 17=24-7 half rounds RC5. From Table 4, this RC5 encryption algorithm is distinguished from random permutation in  $2^{45.16}$  numbers of data.

Table 3. Precisely examination of  $x^2$  and number of data in Test 4

# half rounds	6	7	8	9	10	11	12
# data (log 2)	12.32	15.71	18.58	21.31	24.09	27.81	30.17
$X^2$	45	46	46	45	45	46	45

						-		-	-			
#half rounds	13	14	15	16	17	18	19	20	21	22	23	24
#data (log2)	36.25	36.25	39.22	42.19	45.16	51.1	51.1	54.07	57.04	60.01	62.98	65.95
1 in 2 <sup>5</sup> keys	30.31	33.28	36.25	39.22	42.19	45.16	48.13	51.1	54.07	57.04	60.01	62.98
1 in 2 <sup>10</sup> keys	27.34	30.31	33.28	36.25	39.22	42.19	45.16	48.13	51.1	54.07	57.04	60.01
1 in 2 <sup>15</sup> keys	24.37	27.34	30.31	33.28	36.25	39.22	42.19	45.16	48.13	51.1	54.07	57.04
1 in $2^{20}$ keys	21.4	24.37	27.34	30.31	33.28	36.25	39.22	42.19	45.16	48.13	51.1	54.07
1 in $2^{25}$ keys	18.43	21.4	24.37	27.34	30.31	33.28	36.25	39.22	42.19	45.16	48.13	51.1
1 in $2^{30}$ keys	15.46	18.43	21.4	24.37	27.34	30.31	33.28	36.25	39.22	42.19	45.16	48.13
1 in 2 <sup>35</sup> keys	12.49	15.46	18.43	21.4	24.37	27.34	30.31	33.28	36.25	39.22	42.19	45.16
1 in 2 <sup>40</sup> keys	9.52	12.49	15.46	18.43	21.4	24.37	27.34	30.31	33.28	36.25	39.22	42.19

Table 4. Estimation of the number of required text for distinguishing attack

#### 5. Key Recovery Algorithm

In this section, we propose a key recovery algorithm by using the  $X^2$  statistics of RC5 with *r* half rounds.

## 5.1. Knudsen, Meier's Approach

Knudsen proposed an algorithm for key recover of the extended key of the first round of RC6 by using  $X^2$ statistics. His approach uses the property that the 0 amounts of the first rounds data dependent rotation growths the  $X^2$  value. First of all, we try to modify this approach to a key recovery of RC5.

## Algorithm 5.1. (Knudsen, Meier-modified)

Input: RC5 encryption algorithm of unknown secret key

Output: candidate of ls5(S[1]) for each plaintext (A, B),where ls5b(A)=0 compute ciphertext (A<sup>'</sup>, B<sup>'</sup>);  $s_0 = 32 - ls5(B') \mod 32;$   $y_1 = ls5(A');$ count up the memory map  $[s_0][y_1];$ 

for each  $s_0$ 

 $X^{2}[s_{0}] = X^{2} \text{ of map } [s_{0}];$ 

return s such that  $X^{2}[s] = \max \{X^{2}[s_{0}]|s_{0} = 0,...,31\};$ 

In order to obtain the high success rate of the above key recovery algorithm, the average of  $X^2$  is far smaller than the amount of  $X^2$  in the case of zero rotation.

Table 5 shows the experiment of  $X^2$  value of each rotation nearly equal to 0. Though the amount of  $X^2$  at the 0 rotation always highest,  $X^2$  values near of 0 still large, so the average of  $X^2$  is not small. By this reason, we cannot obtain high success rate of this algorithm.

In fact, from the experimental results of the algorithm, we have only 20-30% of success probability.

	Table 5.	Data d	dependen	t rotatior	n of l <sup>st</sup> ro	ound and	$X^2$ value	s 6 half 1	ound of	RC5 (ave	erage of f	500 tests)	
date	26	27	28	29	30	31	0	1	2	3	4	5	6
$2^{12}$	31	31	32	34	36	38	43	40	35	33	31	31	31
$2^{13}$	31	32	33	39	41	45	55	49	39	38	33	31	31
$2^{14}$	32	33	37	47	51	61	79	69	48	46	35	33	32
$2^{15}$	34	35	44	62	73	91	127	106	67	61	40	35	35

5.2. Recovering the Least Significant 5 Bits of the Last Round Key

In this section, we show an algorithm for recovering the least significant 5 bits of the last round key S[r+1] by using chosen plaintext attack.

Suppose the least significant 5 bits of each words of plaintexts is fixed 0. (Namely (ls5(A)=ls5(B)=0).) In this section, we only use the ciphertexts (A', B') corresponding to the plaintext (A,B) which satisfy the condition ls5(A')=0. (In the next section, we also use the texts such that  $ls5(A')\neq 0$  for constructing the whole procedure recovering the last round 32 bits key). We

note that the amount of last round data dependent rotation  $y_l$  is always 0. Then, we have:

#### $y_2 = ls5(B') - ls5(S[r+1]) \mod 32.$

Therefore,  $ls5(A_{r-2}=((A'-S[r])\otimes y_2) \mod 32$ . Since S[r] is fixed value, the X<sup>2</sup> values of  $((A'-S[r])\otimes y_2) \mod 32$  and  $(A'\otimes y_2) \mod 32$  are almost same. In general, the X<sup>2</sup> statistics of  $ls5(A_{r-2})$  is much larger than X<sup>2</sup> statistics of  $ls5(A_r)$ . Now, we consider the X<sup>2</sup> value of  $ls5(A_{r-2})$ . We mention that, since we suppose that ls5(A')=0, when  $y_2$  satisfies  $y_2 \le 4$  or  $28 \le y_2$ , some of bits in the  $ls5(A_{r-2})$  are fixed. Therefore, it is meaningless for compute the X<sup>2</sup> value of  $ls5(A_{r-2})$  except for the case of  $5 \le y_2 \le 27$ . The algorithm is described in Algorithm 5.2. The memory

requirement of this procedure is 2<sup>15</sup> words (at most 128 Kbyte), and the dominant step of computational complexity is the encryption stage.

# Algorithm 5.2. (Shimoyama, Takeuchi, Hayakawa (1))

Input: RC5 encryption algorithm of unknown key; Output: candidates ls5(S[r+1]);for each plaintext (A,B), where ls5b(A)=ls5b(B)=0compute ciphertext (A', B'); if ls5(A') = 0for each candidates  $s_0 \in \{0, ..., 31\}$ of ls5(S[r+1]) $y_2 = ls5(B') - s_0 \mod 32;$ if  $y_2 \ge 5$  and  $y_2 \le 27$ ;  $z_2 = ls5(A' >>> y_2);$ count up the memory  $map[s_0][y_2][z_2]$ ; for each  $s_0$ ,  $y_2$  $\chi^2[s_0][y_2] = \chi^2$  of map[s\_0][y\_2]; for each s<sub>0</sub> ave $[s_0]$  = average of  $\chi^2 [s_0][y_2]$ ; return s such that ave[s]=max { ave  $[s_0]|s_0=0,...,31$  };

Occasionally, there is a case that the each counter satisfied the condition

 $map[s_0][y_2] = \dots = map[s_0][y_2][31] = 0$ 

for some  $s_0$ ,  $y_2$ . In this case, the correct key is  $(y_2+s_0)$  mod 32 in high probability. So return  $y_2+s_0 \mod 32$ . By using this criterion, we can easily obtain the solution, in this special case.

For 6 rounds, we have success probability more than 50% by using  $2^{18}$  data, and 70% by using  $2^{20}$ . Moreover, the probability that the bias is at most  $\pm 1$ , is more than 80% with  $2^{20}$  data, and 90% with  $2^{21}$  data. In 8 rounds, for each success probability, the corresponding number of plaintexts is increased by a constant factor of about  $2^{6}$ .

# 5.3. Recovery of the Last Round Key

In this section, we construct an algorithm for recovering the all bits of last round key. Suppose ls5(A')=i. Then the amount of last round data dependent rotation  $y_i$  is equal to i, so  $y_2=((B'-S[r+1])*i)\oplus i \mod 32$ . Let  $s_i=(S[r+1])*i) \mod 32$ . Since that the difference of  $y_i$  and  $((B'-(s_i < i))*i)\oplus i \mod 32$  is at most  $\pm$ , we use  $((B'-(s_i < i))*i)\oplus i \mod 32$  instead of  $y_i$ . The algorithm, described below, is constructed by the same way described in the previous section.

#### Algorithm 5.3. (Shimoyama, Takeuchi, Hayakawa (2))

Input: RC5 encryption algorithm of unknown secret key; Output :candidates S[r+1]; for each plaintext (A',B'), where sl5b(A) = ls5b(B) = 0 compute ciphertext (A',B');  $y_1 = ls5(A');$ for each candidates  $s_{y1} \in \{0,...,31\}$ of  $ls5(S[r+1]>>>y_1)$   $y_2 = ls5((B'-(s_{y1}<<<y_1)) mod32;$ if  $y_2 \ge 5$  and  $y_2 \le 27;$  $z_2 = ls5(A'>>> y_2);$  count up the memory  $\begin{aligned} & \text{map}[y_1][s_{y_1}]][y_2][z_2]; \\ & \text{for each } y_1, s_{y_1}, y_2 \\ & \chi^2[y_1][s_{y_1}][y_2]=\chi^2 \text{ of map}[y_1][s_{y_1}][y_2]; \\ & \text{for each } y_1, s_{y_1} \\ & \text{ave}[y_1][s_{y_1}]= \text{average of } \chi^2[y_1][s_{y_1}][y_2]; \\ & \text{for each } y_1 \\ & \text{key}[y_1]=s_0 \text{ such that} \\ & \text{ave}[s_0]=\max \{\text{ave}[i]|i=0,\ldots,31\}; \\ & \text{concatenate } \text{key}[y_1] \text{ and derive } 32 \text{ bit key } S; \\ & \text{return } S; \end{aligned}$ 

We comment that for concatenate the 32 candidates of 5bits to 32 bit integer, we can use any error correcting algorithm, by using the property that each 5 bits solution is different from the correct value at most  $\pm 1$  in high probability.

At the end of this section, we discuss the weak key. The key recovering algorithm described in this section, we suppose the least significant 5 bits of each words of plaintexts are fixed zero. From the same reason of the existence of weak keys against distinguishing attack, if the condition ls5(S[0])=...=ls5(S[t])=0 holds, the security of the *r* rounds RC5 encryption using this key is as same as the security level of *r*-*t*+1 half round RC5. For example, in the case that the key satisfy

 $ls5(S[0]) = \dots = ls5(S[8]) = 0,$ 

24 round RC5 with this key has the same security of 17 half rounds. This key can be found every one in  $2^{45}$  keys.

#### 6. Application to the Simplified Variants of RC6

Contini presented the some simplified variants of RC6, that is RC6-I, RC6-NFR, RC6-INFR, and the cryptanalysis to these families. Knudsen proposed the attacking method to RC6 in (Knudsen et al. 1999).

In this section, we consider the security against the attack using  $X^2$  statistics for the simplified variants RC6-I, RC6-NFR, RC6-INFR. Each variant has reduced round function *F* compared with RC6 (Table 6). Every one of simplified variants is not one of the real world block cipher, but prototype block cipher for comparing the security with that of RC6, however, we think that cryptanalysis of these variants may be meaningful.

We mention that the least significant 5 bits of the output of the round function of 3 variants are obtain from only 5 input bits. Therefore, we can apply the Algorithm 5.2 to each variant with a little modification. The remaining problem is a relation of  $X^2$  value and number of rounds.

Let observe the following two tests.

*Test1:* Fix least significant 5 bits of plaintext A and C to 0, and compute  $X^2$  of least significant 5 bits of ciphertext A and C.

*Test2:* Fix least significant 5 bits of plaintext A, B, C and D to 0, and compute  $X^2$  of least significant 5 bits of ciphertext A and C.

Table 6. Round function F of variants of RC6								
			RC6-INFR	RC6-1	RC6-NFR	RC6		
	$F(\mathbf{x})=$		x	<i>x</i> <<<5	<i>x</i> ×(2 <i>x</i> +1)	$(x \times (2_x + 1)) <<<5$		

Table 7.  $X^2$  tests to the RC6 variants

Tests 1 : (fix lsb(A), lsb(C))								
#rounds	INFR	NFR	Ι	RC6				
2	$2^{14}(1159)$	$2^{13}(1122)$	$2^{13}(1107)$	$2^{14}(1178)$				
4	$2^{25}(1152)$	$2^{26}(1126)$	$2^{29}(1171)$	$2^{30}(1156)$				
Test 2 : (fĭx lsb(A), lsb(B), lsb(C), lsb(D))								
<i>#</i>	INIED	NED	т	DCC				

#rounds	INFR	NFR	Ι	RC6
2	2 <sup>7</sup> (1193)	$2^{7}(1122)$	$2^{13}(1100)$	$2^{13}(1100)$
4	$2^{16}(1109)$	$2^{17}(1102)$	$2^{22}(1141)$	$2^{29}(1171)$
6	$2^{28}(1164)$	$2^{30}(1141)$		

In these tests, we set up the threshold by 1099. The sequence whose  $X^2$  value extends more than 1099 can be distinguished from a random permutation in probability 95 %. (Table 1) Table 7 shows the results of the first number of  $X^2$  coming up with 1099, and corresponding the number of data. (They are averages of 50 times computer experiments.)

In the roughly consideration, from Table 7, we estimate that each additional 2 rounds require  $2^{12}$ ,  $2^{13}$  and  $2^{16}$  times as many number of texts to obtain the same  $X^2$  value for the variants RC6-INFR, RC6-NFR and RC6-I, respectively against the Test 1. For the results of Test 2, the condition in the Test 2 makes decreasing the initial values of the number of required data about  $2^9$ ,  $2^9$ ,  $2^7$  times of those conditions in Test 1, for RC6-INFR, RC6-NFR and RC6-I. By using either the assumption used in Test 1, Test 2, it is estimated that we can cryptanalysis up to 19 rounds of RC6-INFR, RC6-NFR, and up to 15 rounds of RC6-I. Moreover, in assumption of Test 2, there is a weak key as the same reason of the case in RC5. For example, a key satisfied the following condition has the same security level as 20-*i* round,

 $ls5(S[0]) = \dots = ls5(S[2i+1]) = 0.$ 

Especially, in the case that

ls5(S[0]) = ... = ls5(S[3]) = 0,

20 round RC6-INFR, RC6-NFR can be distinguishing from the random permutation by using lesser complexity compared with exhaustive search.

## 7. Conclusion

In this paper, we improved the Knudsen and Meier's attacking algorithm obtained from  $X^2$  tests, and applied this to the RC5 encryption algorithm. Then we showed the experimental results of attacking the RC5 with reduced rounds. Our computational experiments showed that RC5 with up to 20 half rounds can be distinguished from a random permutation by using  $2^{54}$  chosen ciphertext. Moreover, we showed that full round RC5 with a weak key which is available one in  $2^{20}$  keys is distinguishable from random permutation with less than complexity of exhaustive key search. Furthermore, we constructed an algorithm for key recovery using the correlation and showed the computational experiments.

From our experiments, we concluded that the last round key of RC5 with up to 17 half rounds, or RC5 with up to full round with respect to a weak key can be recovered by using  $2^{54}$  chosen plaintext attack with success probability 80%.

At last, we observed the strength of the simple variants of RC6 demonstrated (Contini 1999), that is RC6-INFR, RC6-NFR and RC6-I, against our improved attacking algorithms. Then we showed RC6-INFR, RC6-NFR with up to 19 rounds, and RC6-I with up to 15 rounds are breakable for our improved distinguishing algorithm. Moreover we showed full round RC6-INFR, RC6-NFR with respect to a weak key existing in a ratio of one to 245 are breakable by using our distinguishing attack. We remark that further improvement of this attack will be considered. It may be also interesting that the similar attacks can be applicable or not to another type of block cipher, for example MARS. Furthermore, it still remain some important problem of how to protect or design block ciphers to be secure, especially to have provable security, against the attacks by using  $X^2$ statistics, but these are future works.

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