

Program of the EUROPEAN COMPUTING CONFERENCE (ECC'09)

Tbilisi, Georgia, June 26-28, 2009

<http://www.wseas.org/conferences/2009/tbilisi/ecc/>

1st Day: 26 June, 2009

9.30 – 10.00 Registration
10.00 – 11.00 Opening
11.00 -11.30 Coffee Break

11:30 – 12:15 , CONFERENCE ROOM A

Plenary Lecture 1:



Visualizing Programs

by Prof. Harald Wertz, Laboratoire d' Informatique Avancee de Saint- Denis (LIASD), FRANCE.

12:15 – 13:00

Plenary Lecture 2:



Finsler Optimal Control and Geometric Dynamics

by Prof. Constantin Udriste, University Politehnica of Bucharest, ROMANIA.

13.00-14.00

Lunch Break

**26 June, 2009, CONFERENCE ROOM A,
14.00-16.00 : SESSION: Theory and Fundamental Problems of Computing**

Chairman: Anna Sikharulidze

1	ODE-constrained optimal neoclassical growth	Constantin Udriste, Massimiliano Ferrara, Luca Guerrini	615-128
2	Fluid Approximation to Controlled Jump Markov Processes with Local Transitions	Alexey Piunovskiy	615-155
3	On the Holonomic Parametrizations of Knots	Alexander Gamkrelidze, Violetta Apkhazava	615-178
4	Improving Height-Balance in Search Trees: center versus root, radius versus height	Koba Gelashvili, Irina Khutsishvili	615-180
5	Analog Filter Group Delay Optimization. Efficiency Evaluation of Optimization Methods	Karel Zaplatilek	615-153
6	New Matrix-Sets Generation and the Cryptosystems	Richard Megrelishvili, Anna Sikharulidze	615-179

16.00-16.30 Coffee Break

**26 June, 2009, CONFERENCE ROOM A,
16.30-18.30 : SESSION: Theory and Fundamental Problems of Computing**

Chairman: Koba Gelashvili

1	Polynomial-time solvability of the maximum clique problem	Etsuji Tomita, Hiroaki Nakanishi	615-163
2	An algorithm for best approximation of functions by broken lines	Guram Kashmadze	615-183
3	On one Construction of a Finite Automation	Tariel Kvedelidze Irma Aslanishvili	615-181
4	Compressing Multidimensional Structures – A Case Study	Jorge Ribeiro, Helder Ribeiro	615-083
5	A recursion forms and their verification by using	N.Archvadze M.Pkhovelishvili L.Shetsiruli M.Nizharadze	615-203
6	Data Unification Algorithm for Representing Incomplete and Indefinite Information in the Medical Expert System	Manana Khachidze Maia Mikeladze	615-200

2st Day: 27 June, 2009

8.45 – 9.30 , CONFERENCE ROOM A

Plenary Lecture 3:



Computer-Aided Simulation Methods for Measuring the Accuracy of Converters

by Prof. Costin Cepisca, POLITEHNICA University of Bucharest, ROMANIA.

9.30 – 10.15

Plenary Lecture 4:



Data Aggregations Techniques in Over-Sampling Converters

by Prof. Sorin Dan Grigorescu, POLITEHNICA University of Bucharest, ROMANIA.

10.15 - 11.00

Plenary Lecture 5:



Evolutionary Computation using Logic Programming

by Assist. Prof. Jorge Ribeiro, Polytechnic of the Institute of Viana do Castelo, PORTUGAL.

11.00 - 11.30 Coffee Break

**27 June, 2009, CONFERENCE ROOM A,
11.30 - 13.30 : SESSION: CIRCUITS, SYSTEMS, CONTROL, POWER**

Chairman: Alexander Gamkrelidze

1	Mathematical Model of Dynamic Lamp Characteristics	Florin argatu, Costin Cepisca, Sorin Dan Grigorescu, George Seritan, Mircea Covrig	615-149
2	Experimental Analysis of Advanced System for Reducing the Energy Consumption of Public Street Lighting Systems	Costin Cepisca, Horia Andrei, Dogaru Valentin Ulieru, Laurentiu Stancu, Eleonora Darie	615-150
3	Analysis of Thermal Phenomena in High-Voltage Fuse-Links Based on Thermovision Equipment	Valer Giurgiu, Costin Cepisca, Gheorghe Oarga, Sorin dan Grigorescu, Liliana Stefanescu	615-151
4	Computer Added Monitoring of Drilling Rig Systems	Sorin dan Grigorescu, Ion Potarniche, Costin Cepisca, Octavian Mihai Ghita, Mircea Covrig	615-152
5	System Approach to EMC Problems Arising in Automobile Cable Harness	George Sergia, David Topchishvili, Iskander Badzagua, Roman Jobava	615-182
6	Numerical simulations for energy calculation in power measurements	Sorin dan Grigorescu, Costin Cepisca, Ion Potarniche, Octavian mihai Ghita, Mircea Covrig, Elena Grigorescu	615-156

13.30- 14.00 Lunch Break

**27 June, 2009, CONFERENCE ROOM A,
14.00 - 16.00 : SESSION: Artificial Intelligence and Applications**

Chairman: Jorge Ribeiro

1	Quality of the Information: The application in the winification process in wine production	Jorge Ribeiro, Paulo Novais, Jose Neves, Manuel Delgado	615-082
2	Wine winification prediction using Data Mining Techniques	Jorge Ribeiro, Jose Neves, Juan Sanches, Manuel Delgado	615-084
3	Predictive Maintenance Management of Rail Track	R. B. Faiz, S. Singh	615-079
4	Fuzzy Logic System for Variable Message Signs in Kuala Lumpur	Arash Moradkhani Roshandeh, Majid Joshani, Othman Che Puan	615-164
5	An Efficient Database and Search Engine for Electronic Publications	Alexander Gamkrelidze Thomas Burch Ilia Chogovadze	615-230
6	Fixing Variable Values in the Capacitated Facility Location Problem through Pairing and Surrogate Constraint Analysis	Maria A. Osorio, Abraham Sanchez	615-223

16.00 - 16.30 Coffee Break

**27 June, 2009, CONFERENCE ROOM A,
16.30 - 18.10 : SESSION: SIGNAL PROCESSING AND
TELECOMMUNICATIONS**

Chairman: Tamar Lominadze

1	Estimation of Efficiency of Multimedia System	Medea tevdoradze Lily Lobzhanidze Nino Lolashvili	615-185
2	Transition from MSN (Multi Service Network) conception to NGN (Next Generation Networks) networks conception	Jemal Beridze Tatiana Burkadze	615-188
3	Analysis of Service Network Management in the Electronic Commercial Systems	Lali Gochitashvili Tornike Dvali Shorena Okujava Ekaterine Gvaramia	615-195
4	Fast Time Delay Neural Networks for Word Detection in Video Conference	Hazem El-Bakry, Nikos Mastorakis	615-130
5	An Efficient Electronic Archiving Approach for Office Automation	Hazem El-Bakry, and Nikos Mastorakis	615-135

20.00 - 24.00 Banquet

3st Day: 28 June, 2009

8.45 – 9.30 , **CONFERENCE ROOM A**

Plenary Lecture 6:



Neural Networks: A Bridge Towards Self-Observation

by Assoc. Prof. Jean-Jacques Mariage,
Laboratoire d' Informatique Avancee de Saint-Denis (LIASD), FRANCE.

9.30 – 10.15

Plenary Lecture 7:



On the Optimality of a General Production Lot Size Inventory Models with Variable Parameters

by Prof. Zaid Balkhi, King Saud University, SAUDI ARABIA.

10.15 – 11.00

Plenary Lecture 8:



A Fuzzy Identification Problem for the Stationary Discrete Extremal Fuzzy Dynamic System

by Prof. Gia Sirbiladze, Iv. Javakhishvili Tbilisi State University, GEORGIA.

11.00 - 11.30

Coffee Break

**28 June, 2009, CONFERENCE ROOM A,
11.30 - 13.30 : SESSION: CIRCUITS, SYSTEMS, CONTROL, POWER**

Chairman: Sorin Dan Grigorescu

1	Mobile platform for testing electric traction motor prototypes	Stefan Gheorghe, Mircea Covrig, Grigore Danciu, Costin Cepisca, Tudor Rusu, Sorin dan Grigorescu, Sanda Victorinne Paturca, Nicolae Jula, Dorin Oprea, Daniel Serban	615-157
2	Artificial neural networks applied to measurements rotor angle in a synchronous generator	Eleonora Darie, Costin Cepisca, Emanule Darie	615-158
3	Contributions concerning the sensitivity analysis of the analogue two-ports circuits for communications	Horia Andrei, Costin Cepisca, Nicolae Jula, Paul Cristian Andrei, Laurentiu Stanciu	615-159
4	Parallel Adder with Low Costs and Depth	Alexander Gamkrelidze	615-176
5	An Optimization Algorithm of Hierarchical Circuits	Alexander Gamkrelidze	615-177
6	A Delay Improved Gate Level Full Adder Design	Padmanabhan Balasubramanian, Nikos E. Mastorakis	615-111

13.30- 14.00 Lunch Break

**28 June, 2009, CONFERENCE ROOM A,
14.00 - 16.00 : SESSION: INFORMATION SYSTEMS**

Chairman: Amur Dzodzuashvili

1	IT Governance using COBIT implemented in a High Public Educational Institution – A Case Study	Jorge Ribeiro, Rui Gomes	615-080
2	Service-Oriented architecture adoption in a Portuguese company: a case study	Florence Augusto, Jorge Ribeiro, Rui Gomes	615-081
3	Computer Model for Small Business Development in Georgia	Lika Khatiashvili Eka Gvaramia Elene Kamkamidze	615-186
4	Development and Research of the Computer System Models Supporting the Human Resource Selection for the Project Management	Gia Surguladze Ekaterine Turkia Nino Topuria Megi Guitashvili	615-189
5	On the Strategies of the Test Generation	David kapanadze Tamar Lominadze Taliko Zhvania Tea Todua	615-193
6	Learning Process Management Information Method	A.Dzodzuashvili Z.Kipshidze	615-196
7	Logical-Probabilistic Modeling, Optimization And Analysis	Z.G. Tsiramua, E.A. Chikashua, S.G. Tsiramua	615-198

16.00 - 16.30 Coffee Break

**Program of the 3rd International Conference on
COMPUTATIONAL INTELLIGENCE
(CI'09)**

Tbilisi, Georgia, June 26-28, 2009
<http://www.wseas.org/conferences/2009/tbilisi/ci/>

1st Day: 26 June, 2009

9.30 – 10.00 Registration
10.00 – 11.00 Opening
11.00 -11.30 Coffee Break

11:30 – 12:15 , CONFERENCE ROOM A

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12:15 – 13:00

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ROMANIA.

13.00-14.00 Lunch Break

26 June, 2009, CONFERENCE ROOM B
14.00-15.50 : SESSION: COMPUTATION INTELLIGENCE APPLICATION

Chairman: Zaid T. Balkhi

1	A Sustainable Alimentation System for Our Future: The Passive Greenhouse	Marius M. Balas and Valentina E. Balas	615-095
2	Constructing lexicon with morpho-syntactic features from untagged corpora	Anna Pappa	615-170
3	Abstraction of photographs: a comics style approach	Catherine Sauvaget Vincent Boyer	615-169
4	Unification of Lukasiewicz logic enriched with constant connective	Revaz Grigolia Ramaz Liparteliani	615-211
5	Bimodal system LinTGrz has finitary unification type	Revaz Grigolia Tatiana Kiseliova	615-212

16.30-18.20 Coffee Break

26 June, 2009, CONFERENCE ROOM B
16.30-18.30 : SESSION: COMPUTATION INTELLIGENCE APPLICATION

Chairman: Tamar Lominadze

1	Factorization of combinatorial problems with blocking meta-heuristics	Zurab Bosikashvili Tamar Lominadze	615-187
2	Problem of determining optimal lot size with respect to the production, storage, and quality criteria	Shorena Okujava Tamar Asatiani Ia Giashvili Manana Magradze	615-201
3	The two-stage model for order selection and operation sequencing	Anton Lominadze Nodar Lominadze	615-229
4	General conflict management information model	Zurab Kipshidze A.Dzodzuashvili G. Ananiashvili	615-227
5	About the principles of search in conceptual knowledge bases	Zurab Kochladze	615-197
6	On One Model of English-Georgian Electronic Translator	Mikheil Tutberidze	615-184

2st Day: 27 June, 2009

8.45 – 9.30, CONFERENCE ROOM A

Plenary Lecture 3:



Computer-Aided Simulation Methods for Measuring the Accuracy of Converters

by Prof. Costin Cepisca, POLITEHNICA University of Bucharest, ROMANIA.

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Plenary Lecture 5:



Evolutionary Computation using Logic Programming

by Assist. Prof. Jorge Ribeiro, Polytechnic of the Institute of Viana do Castelo, PORTUGAL.

11.00 - 11.30 Coffee Break

27 June, 2009, CONFERENCE ROOM B
11.30 - 13.30 : SESSION: FUZZY SYSTEMS

Chairman: Gia Sirbiladze

1	The coordination index of fuzzy opinions under group decision-making	Teimuraz Tsabadze	615-228
2	A new approach to analysing fuzzy data and decision-making regarding the possibility of earthquake occurrence	Jina Gachechiladze Tamaz Gachechiladze Irina Khutsishvili	615-190
3	The combined decision making method based on the statistical and fuzzy analysis	Irina Khutsishvili	615-192
4	The dominance concept of Dempster-Shafer (D-S) belief structure in the modeling decisions	Zakaria Karsaulidze Gia Sirbiladze Bezhan Ghvaberidze	615-207
5	New Chromo theory of Canonically Conjugate fuzzy Subset	Tamaz Gachechiladze Hamlet Meladze Guram Tsertsvadze Magda Tsintsadze	615-231
6	A New Method For Controlling Boiler of Thermal Power Plant Using Fuzzy Logic	Hamid Bentarzi, Rabah Amr Chentir and Nikos E.Mastorakis	615-078

13.30- 14.00 Lunch Break

27 June, 2009, CONFERENCE ROOM B
14.00 - 16.00 : SESSION: FUZZY SYSTEMS

Chairman: Gia Sirbiladze

1	Surveying Users' Practices Regarding Mobile Phones' Security Features	Iosif Androulidakis, Vasilios Christou, Nikolaos G. Bardis, Ioannis Stilios	615-077
2	Investigation of the heat index in Georgia based on the most typical fuzzy expected values	Marina Fandoeva Tatiana Kiseliova Anna Sikharulidze	615-191
3	Evaluation of Bankruptcy risks by the method of Fuzzy Statistics	Teimuraz Manjafarashvili Mikheil Kapanadze	615-236
4	Finitely purely (pseudo)atomic set Multifunctions	Alina Gavrilut, Anca Croitoru, Nikos e. Mastorakis, Gabriel Gavrilut	615-122
5	On Regular Multisubmeasures And Their Applications	Alina Gavrilut, Nikos E. Mastorakis	615-123

16.00 - 16.30 Coffee Break

20.00 - 24.00 Banquet

3st Day: 28 June, 2009

8.45 – 9.30, CONFERENCE ROOM A

Plenary Lecture 6:



Neural Networks: A Bridge Towards Self-Observation

by Assoc. Prof. Jean-Jacques Mariage,
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9.30 – 10.15

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On the Optimality of a General Production Lot Size Inventory Models with Variable Parameters

by Prof. Zaid Balkhi, King Saud University, SAUDI ARABIA.

10.15 – 11.00

Plenary Lecture 8:



A Fuzzy Identification Problem for the Stationary Discrete Extremal Fuzzy Dynamic System

by Prof. Gia Sirbiladze, Iv. Javakhishvili Tbilisi State University, GEORGIA.

11.00 - 11.30

Coffee Break

28 June, 2009, CONFERENCE ROOM B
11.30 - 13.30 : SESSION: NEURAL NETWORKS AND EVOLUTIONARY COMPUTATION

Chairman: Jean-Jacques Mariage

1	Neural Network Approximating Nonlinear Sand Line Change from Aerial Survey Data Sets	T. Kerh, Y. M. Wang, G. S. Hsu, D. Gunaratnam	615-099
2	Artificial Neural Networks applied to Sensorless Control in a Switched Reluctance Motor	Eleonora darie ,costin cepisca, emanuel darie	615-148
3	Agent's evolution to communication, a global approach to language	Jean-Franúois Lucas	615-171
4	Mathematical Theory of Redundancy Based on Formal Neuron Model	Archil Elizbarashvili Oleg Namicheichvili	615-225
5	Application of adaptive genetic algorithm in mining industry	Gela Besiashvili O.Rcheulishvili	615-226

13.30- 14.00 Lunch Break

16.00 - 16.30 Coffee Break

**Program of 2nd WSEAS International Conference on
FINITE DIFFERENCES - FINITE ELEMENTS -
FINITE VOLUMES - BOUNDARY ELEMENTS
(F-and-B'09)**

Tbilisi, Georgia, June 26-28, 2009
<http://www.wseas.org/conferences/2009/tbilisi/fb/>

1st Day: 26 June, 2009

9.30 – 10.00 Registration
10.00 – 11.00 Opening
11.00 -11.30 Coffee Break

11:30 – 12:15, CONFERENCE ROOM C

Plenary Lecture 1:



**Numerical Simulations of Incompressible Flows Using the
Finite-Element-Method**
by **Assoc. Prof. Karel Frana**, Technicka univerzita v Liberci,
CZECH REPUBLIC.

12:15 – 13:00

Plenary Lecture 2:



Meshfree-based Finite Volume Method
by **Prof. Hong Zheng**, Chinese Academy of Sciences, CHINA.

13.00-14.00 Lunch Break

26 June, 2009, CONFERENCE ROOM C
14.00-16.00 : SESSION: FINITE DIFFERENCES

Chairman: Temur Jangveladze

1	Accelerated Finite Difference Methods for a Simplified Phase Field Model	CHR. A. SFYRAKIS	615-096
2	On Spectral Approximation of Static And Dynamical Problems For Elastic Multistructures	Gia Avalishvili, Mariam Avalishvili	615-204
3	Nonlinear Dynamical Mathematical Models for Plates and Numerical Solution Cauchy Problems by Gauss-Hermite Processes	Tamaz S Vashakmadze	615-217
4	Numerical Realizations of Some Difference Schemes for Boundary Value Problems for Second Order Ordinary Differential Equations	Tamaz Vashakmadze, Dimitri Arabidze	615-216
5	On the Numerical Integration of One Nonlinear Parabolic Partial Differential Equation	Mikheil Tutberidze	615-218
6	Finite Difference Scheme to a Nonlinear Integro-Differential Equation Associated with the Penetration of a Magnetic Field into a Substance	Temur Jangveladze, Zurab Kiguradze	615-222
7	Finite Difference Schemes of Unsteady Boundary Layer Flow and Heat Transfer over a Stretching Surface in a Micropolar Fluid	Nikos Mastorakis	615-106

16.00-16.30 Coffee Break

26 June, 2009, CONFERENCE ROOM C
16.30-18.30 : SESSION: APPLICATIONS OF THE F-and-B METHODS IN SCIENCE AND ENGINEERING

Chairman: Ilie Mitran

1	Numerical studies of flows past a cylinder and over a hill using the Detached Eddy Simulation (DES) model	Vit Honzejek, Karel Frana	615-097
2	Mixing by Thermal Convection in a Biochemical Reactor	Joan Herrero, Dolors Puigjaner, Francesc Giralt, Carles Simo	615-107
3	Finite element analysis of an overhead crane bridge	Camelia Bretotean Pinca, Gelu Ovidiu Tirian, Ana Josan	615-112
4	About an optimal method type MAX MIN for the analysis of mining works stability in open pits	Ilie Mitran, Florin Dumitru Popescu, Sorin Iuliu Mangu	615-136
5	About consumer optimum dynamic model and market equilibrium interest	Ilie Mitran, Codruta Cornelia Dura, Sorin Iuliu Mangu	615-137
6	About equalization principle. Applications in ruining problems and financial arbitration	Ilie Mitran, Codruta Cornelia Dura, Sorin Iuliu Mangu	615-138
7	Finite Difference Schemes for a moving orthotropic web	Nikos Mastorakis	615-114

2st Day: 27 June, 2009

8.45 – 9.30, CONFERENCE ROOM C

Plenary Lecture 3:



Finite Element Simulation of the Dynamics of Tethered
Satellite Systems

by Prof. Hans Troger, Technische Universitat Wien, AUSTRIA.

9.30 – 10.15

Plenary Lecture 4:



Dual BEM Since 1986

by Prof. Jeng-Tzong Chen, National Taiwan Ocean University,
TAIWAN.

10.15 - 11.00

Plenary Lecture 5:



Criteria of Strategic Behaviour and Optimum Trajectories for
the Problem of Sequential Decision

by Assoc. Prof. Ilie Mitran, University of Petrosani, ROMANIA.

11.00 - 11.30 Coffee Break

27 June, 2009, CONFERENCE ROOM C**11.30 - 13.30 : SESSION: APPLICATIONS OF THE F-and-B METHODS IN SCIENCE AND ENGINEERING****Chairman: Teimuraz Davitashvili**

1	A Numerical Algorithm of Solving the Kirchhoff Integro-Differential Equation and Its Error	Jemal Peradze	615-208
2	On Cauchy Type Singular Integrals Approximation Methods in Applied Physics	Jemal Sanikidze, Manana Mirianashvili	615-221
3	On the Probabilistic Estimation of an Error of the Iteration Method of Solution of Linear Algebraic Equations	Alexander Elbakidze, David Jokhadze, Jemal Peradze	615-210
4	The Boundary Value Problem for Poisson Equation on Some Two Dimensional Structures in Three Dimensional Space	David Gordeziani, Hamlet Meladze, Tinatin Davitashvili	615-213
5	A Mixed Problem of Plate Bending for a Regular Polygon Weakened with a Required Full-strength Hole	Nana Odishelidze, F Criado-Aldeanueva, Fransisco Criado	615-219
6	Mathematical Simulation of Air Pollution in Tbilisi Streets for Rush Hours	Teimuraz Davitashvili	615-214
7	Finite Difference Schemes for the Schrodinger-Maxwell equations (with a general non-linear term)	Nikos E. Mastorakis	615-143

13.30- 14.30 Lunch Break**27 June, 2009, CONFERENCE ROOM C****14.30 - 16.00 : SESSION: FINITE ELEMENTS AND FINITE VOLUMES****Chairman: Karel Frana**

1	An Accuracy of the Galerkin Approximation for Nonhomogeneous a Kirchhoff Type Wave Equation	Jemal Peradze	615-209
2	Multiplicable Discrete Operators In PDE Solvers	Dragan Vidovic, Milenko Pusic, Milan Dimkic	615-105
3	Finite Volume Multischeme for Hyperbolic Conservation Laws	Ramaz Botchorishvili	615-237
4	Comments about a Self-developed Finite-Element Code Used in Incompressible Flow Simulations	Vit Honzejek, Karel Frana	615-098
5	Genetic Algorithms with Nelder-Mead Optimization for the Finite Elements Methods applied on Non-linear Problems in Fluid Mechanics	Nikos E. Mastorakis	615-116
6	Numerical Solution of the Schrodinger-Maxwell equations (with a general nonlinear term) via Finite Elements and Genetic Algorithms with Nelder-Mead	Nikos E. Mastorakis	615-133

16.00 - 16.30 Coffee Break**20.00 - 24.00 Banquet**

3st Day: 28 June, 2009

11.00 - 11.30 Coffee Break

CONFERENCE ROOM C

11.30 - 13.30 : SESSION: APPLICATIONS OF THE F-and-B METHODS IN SCIENCE AND ENGINEERING

Chairman: Tamaz Vashakmadze

1	Approximate Solution of Some Linear Nonhomogeneous Operator Equations by Approach Alternative to Asymptotic Method	Archil Papukashvili, Gela Manelidze	615-215
2	Finite Difference Scheme for One Mixed Problem With Integral Condition	Givi Berikelashvili, David Gordeziani, Sergo Kharibegashvili	615-205
3	Some Boundary Problems of Theory of Analytic Functions for a Disk with Cuts	Guram Kutateladze	615-206
4	Numerical Simulation of Acoustic and Internal Gravity Waves Caused by Inhomogeneity of Wind Field of The Earth Atmosphere	Amiran Chitaladze	615-202
5	Convergence of Linearized Difference Schemes for Two-Dimensional Saint-Venant Equations (Shallow Water)	Hamlet Meladze, Aza Chanturia	615-220
6	Three-Layer Semidiscrete Scheme For Generalized Kirchhoff Equation	Jemal Rogava, Mikheil Tsiklauri	615-224

13.10- 14.00 Lunch Break

16.00 - 16.30 Coffee Break