

# ISDG 2002

## Program

**Monday, July 8**

<b>8:30 – 10:00</b>	<b>Registration</b>	<b>Assembly Hall</b>
<b>10:00 - 10:30</b>	<b>Opening Session</b>	<b>Assembly Hall</b>
<b>10:30 - 11:30</b>	<b>Plenary Talk (1)</b>	<b>Assembly Hall</b>
<b>11:30 - 12:00</b>	<b>Break</b>	
<b>12:00 – 13:15</b>	<b>Parallel Sessions (M1)</b>	
<b>13:15 – 14:45</b>	<b>Lunch</b>	
<b>14:45 - 16:25</b>	<b>Parallel Sessions (M2)</b>	
<b>16:25 – 16:40</b>	<b>Break</b>	
<b>16:40 – 18:20</b>	<b>Parallel Sessions (M3)</b>	
<b>19:00</b>	<b>Welcome Party</b>	<b>University Center</b>

### **M1 Parallel Sessions**

#### **M1.1 Assembly Hall**

##### **Non-cooperative Dynamic Games (Chair Ryuichiro Ishikawa)**

12:00 -12:25 Matsuhisa, Takashi and Ryuichiro Ishikawa "Rational expectation can preclude trades"

12:25 - 12:50 Ishikawa, Ryuichiro and Takashi Matsuhisa "Rationality on the final decisions leads to sequential equilibrium"

12:50 - 13:15 Murgu, Alexandru. "Multi-Class Service Dynamics Replication Using Evolutionary Selection Games"

#### **M1.2 Petrovskii Hall**

##### **Stochastic Games (Chair Jerzy Filar)**

12:00 -12:25 F. Mignanego and S. Mulinacci "Noncooperative Stochastic Stackelberg Games"

12:25 - 12:50 Filar, Jerzy, Henry A. Krieger and Zamir Syed "Cesaro Limits of Analytically Perturbed Stochastic Matrices"

12:50 - 13:15 Simon, Robert Samuel "A Topological Solution to Quitting Games"

#### **M1.3 Auditorium 70**

##### **Pursuit-Evasion Games (Chair Fumiaki Imado)**

12:00 -12:25 Imado, Fumiaki "Some Approaches to Complicated Pursuit Evasion Dynamic Games"

12:25 - 12:50 Choi, Han-Lim, Min-Jea Tahk and Hyo-Choong Bang "Novel Co-Evolutionary Method for Solving Pursuit-Evasion Games with Consideration of Lethal Radius"

12:50 - 13:15 Barseghyan, V.R. and T.A. Simonyan "Stochastic Differential Game of Deviation from Several Target Sets in Homogeneous Central Field"

#### **M1.4 Museum (Auditorium 44)**

##### **Applied Probability and Combinatorics (Chair Eitan Altman)**

12:00 -12:25 Granot, Daniel, Herbert Hamers, Jeroen Kuipers and Michael Maschler  
"On the chinese postman game"

12:25 - 12:50 Altman, Eitan and Rafi Hassin "Non-Threshold Equilibrium for  
Customers Joining an M/G/1 Queue"

12:50 - 13:15

#### **M2 Parallel Sessions**

##### **M2.1 Assembly Hall**

###### **Non-cooperative Dynamic Games (Chair Steffen Jorgensen)**

14:45 – 15:10 Fakhretdinova, Victoria A. "Multistage multicriteria problem of  
decision making under uncertainty"

15:10 - 15: 35 Cserny, Laszlo "Organizational Decision-Making as Special Dynamic  
Game"

15:35 – 16:00 Campos-Nanez, Enrique and Alfredo Garcia "Dynamic Pricing &  
Learning in Electricity Markets"

16:00 – 16:25 Kremer, Dirk and Radu Stefan "Non-symmetric Riccati Theory and  
Linear Quadratic Nash Games"

##### **M2.2 Petrovskii Hall**

###### **Stochastic Games (Chair Frank Thuijsman)**

14:45 – 15:10 Peeters, Ronald J.A.P. and P. Jean-Jacques Herings "Stationary  
Equilibria in Stochastic Games: Structure, Selection, and Computation"

15:10 - 15: 35 Petrosjan, Leon A. "Cooperative Stochastic Games"

15:35 – 16:00 Grauer, Lidia V. "Folk Theorems for Stochastic Games"

16:00 – 16:25 Flesch, J. and F. Thuijsman "N-Person Switching Control Stochastic  
Games"

##### **M2.3 Auditorium 70**

###### **Pursuit-Evasion Games (Chair Arik A. Melikyan)**

14:45 – 15:10 Shinar, Josef and Valery Y. Glizer "Improved Results in Delayed  
Information Pursuit-Evasion Games"

15:10 - 15: 35 Shevchenko, Igor "On Successive Pursuit of Two Evaders"

15:35 – 16:00 Petrov, N.N. and D.A. Vagin "The Two Problems of Group Pursuit"

16:00 – 16:25 Melikyan, A.A. "Pursuit-Evasion Games on the Surfaces of  
Revolution"

##### **M2.4 Museum (Auditorium 44)**

###### **Minimax, Nash Equilibrium (Chair Alan Washburn)**

14:45 – 15:10 Saghatelian, K.V. "On Induced Stochastic Processes on Graphs"

15:10 - 15:35 Uriarte, Jose Ramon "Evolutionary Drift with Adaptive "Mistakes" and  
Equilibrium Selection"

15:35 – 16:00 Timofeeva, Galina A. "Confidence estimates under uncertainty and  
quantile optimization problem"

15:00 – 16:25 Washburn, Alan, and Ryusuke Hohzaki "The diesel submarine flaming  
datum problem"

### **M3 Parallel Sessions**

#### **M3.1 Assembly Hall**

##### **Non-cooperative Dynamic Games (Chair Vladimir V. Mazalov)**

16:40 – 17:05 Melnik, Valentin N. "Strategic two-part optimal trade policy"

17:05 – 17:30 Fayard, Thierry "An Optimiser of Planning for Real Time Strategy Games"

17:30 – 17:55 Flamini, Francesca "Dynamic Accumulation in Bargaining Games"

17:55 – 18:20 Mazalov, Vladimir V. and Anatoly A. Zabelin "Multistage Arbitration Game with Random Offers"

#### **M3.2 Petrovskii Hall**

##### **Stochastic Games (Chair Thomas S. Ferguson)**

16:40 – 17:05 Shimkin, Nahum "Differential Games and Extremal Large Deviations of Controlled IID Processes"

17:05 – 17:30 Rosenberg, Dinah "Blackell optimality in Markov decision processes with partial observation"

17:30 – 17:55 Raghavan, T.E.S. and Zamir Syed "Stochastic Games with Pure Stationary Optimals"

17:55 – 18:20 Ferguson, Chris and Thomas S. Ferguson "On the Borel and von Neumann Poker Models"

#### **M3.3 Auditorium 70**

##### **Differential Games and Application (Chair W.A. van de Broek)**

16:40 – 17:05 Malafeyef, Oleg "Perfect Equilibrium in Non-cooperative Differential Games"

17:05 – 17:30 Avetisyan, V.V. "The problem of optimal guaranteed search and capture of immobile object"

17:30 – 17:55 Engverda, Jacob C. "Solving The Scalar Feedback Algebraic Riccati Equations: An Eigenvector Approach"

17:55 – 18:20 W.A. van de Broek, J.C. Engverda and J.M. Schumacher "Robust Equilibria In Indefinite Linear Quadratic Differential Games"

## Tuesday, July 9

<b>9:00 – 10:00</b>	<b>Plenary Talk (2)</b>	<b>Assembly Hall</b>
<b>10:00 - 11:00</b>	<b>Plenary Talk (3)</b>	<b>Assembly Hall</b>
<b>11:00 - 11:30</b>	<b>Break</b>	
<b>11:30 – 13:10</b>	<b>Parallel Sessions (T1)</b>	
<b>13:10 – 14:40</b>	<b>Lunch</b>	
<b>14:40 - 16:20</b>	<b>Parallel Sessions (T2)</b>	
<b>16:20 – 16:35</b>	<b>Break</b>	
<b>16:35 – 17:50</b>	<b>Parallel Sessions (T3)</b>	

### Plenary Talk 2

### Plenary Talk 3

### T1 Parallel Sessions

#### T1.1 Assembly Hall

##### Non-cooperative Dynamic Games (Chair Jacqueline Morgan)

11:30 -11:55 Miekisz, Jacek "Stochastic Stability in Spatial Three-Player Games"

11:55 - 12:20 Ougolnitsky, Guennady A. "Game Theoretic Model of the Sustainable Development"

12:20 - 12:45 Caravani, P. "Feedback Nash Equilibrium of Linearly Constrained Linear Games" and Tikhonov regularization for Stackelberg problems"

12:45 – 13:10 Morgan, Jacqueline and Fioravante Patrone "Subgame perfect equilibria and Tikhonov regularization for Stackelberg problems"

#### T1.2 Petrovskii Hall

##### Stochastic Games (Chair Steve Alpern)

11:30 - 11:55 Domansky, Victor "Asymptotics of solutions for Dynkin stopping games"

11:55 - 12:20 Altman, Eitan and Jerzy Filar "An Asymptotic Simplex Method and Markov Decision Processes"

12:20 - 12:45 Mannor, Shie and Nahum Shimkin "Regret Minimization in Stochastic Games"

12:45 – 13:10 Alpern, Steve "Rendezvous in One and More Dimensions"

#### T1.3 Auditorium 70

##### Cooperative Dynamic Games (Chair Shigeo Muto)

11:30 -11:55 Radjef, Mohand S. and Fodil Laib "The Strong Imputation Solution in Dynamic Cooperative Games"

11:55 - 12:20 Aarle, Bas van, Giovanni Di Bartolomeo, Jacob Engwerda and Joseph Plasmans "Staying Together or Breaking Apart: Policy-makers': Endogenous coalitions formation in the European Monetary Union"

12:20 - 12:45 Gambarelli, Gianfranco "Dynamic solutions for Transformed Games from Characteristic into Normal Form"

12:45 – 13:10 Hidano, Noboru and Shigeo Muto "Extended Self, Game, and Conflict Resolution"

#### **T1.4 Museum (Auditorium 44)**

##### **Differential Game Theory, Algorithms (Chair Arkadii A. Chikrii)**

- 11:30 -11:55 Chikrii, Greta Ts. "One Approach to Solution of Complex Game Problems for Quasilinear Evolutionary Systems"
- 11:55 - 12:20 Chikrii, Arkadii A., Greta Ts. Chikrii and Konstantyn Y. Volyansky "Game Problems of Pursuit for Evolutionary Conflict-Controlled Processes"
- 12:20 - 12:45 Cartigny, Pierre and Philippe Michel "On a Sufficient Transversality Condition for Infinite Horizon Optimal Control Problems"
- 12:45 – 13:10 Chikrii, Arkadii A. "Game Problems for Systems with Fractional Derivatives of Arbitrary Order"

#### **T2 Parallel Sessions**

##### **T2.1 Assembly Hall**

###### **Non-cooperative Dynamic Games (Chair Alexander Vasin)**

- 14:40 – 15:05 Zenkevich, N.A. "A Collusion for Repeated Auction Games with Finite Duration"
- 15:05 - 15: 30 Querou, Nicolas, Patrick Rio and Mabel Tidball "Modeling negotiation process via Multilateral bargaining approach and imperfect information"
- 15:30 – 15:55 Suzuki, Yutaka "Monotonicity of Optimal Solutions and Existence of Forecast Horizon in Dynamic Games "
- 15:55 – 16:20 Vasin, Alexander "The Folk Theorems in the Framework of Evolution and Cooperation"

##### **T2.2 Petrovskii Hall**

###### **Differential Games. Applications in Economics (Chair Gustav Feichtinger)**

- 14:40 – 15:05 Cellini, Roberto and Luca Lambertini "Advertising with Spillover Effects in a Differential Oligopoly Game with Differentiated Goods"
- 15:05 - 15: 30 Calzolari, Giacomo and Luca Lambertini "Export Restraints in a Model of Trade with Capital Accumulation"
- 15:30 – 15:55 Cardaliague, Pierre, Marc Quincampoix and Patrick Saint-Pierre "Differential games with state-constraints"
- 15:55 – 16:20 Feichtinger, Gustav "Treatment and Law Enforcement versus Offending: A Differential Game Analysis"

##### **T2.3 Auditorium 70**

###### **Cooperative Dynamic Games (Chair Victor V. Zakharov)**

- 14:40 – 15:05 Zhukovskiy, Vladislav I. and Vitaly S. Molostvov "C-Core in Some Differential Game under Uncertainty"
- 15:05 - 15: 30 Scarelli, Antonino and Zoltan Varga "Dynamic games with fuzzy coalitions in modelling the development of environmental protection"
- 15:30 – 15:55 Schmidt, Christian "Dynamising Cooperative Games: Some Suggestions"
- 15:55 – 16:20 Zakharov, Victor V. and Maria B. Dementieva "Time-consistent imputations in subcore of dynamic cooperative games"

## **T2.4 Museum (Auditorium 44)**

### **Differential Games Theory, Algorithms (Chair Valerii S. Patsko)**

14:40 – 15:05 Hongwei Gao, Sergey V. Chistyakov and Kristina V. Siniova

"Recursive Strategies in a Class of Differential Games"

15:05 - 15: 30 Guseinov, Kh.G., Orhan Ozer and Serkan Duzce "On the Inverse Problem of the Differential Inclusion Theory"

15:30 – 15:55 Grigorieva, S.V., V.N. Ushakov and A.A. Uspenskii "Numerical Solution of Differential Games and Cauchy Problem for Hamilton-Jacobi Equation"

15:55 – 16:20 Kamneva, Ludmila V., Valerii S. Patsko and Varvara L. Turova "Construction of the Value Function for Game Brachistochrone Problem"

## **T3 Parallel Sessions**

### **T3.1 Assembly Hall**

#### **Non-cooperative Dynamic Games (Chair Doris A. Behrens)**

16:35 – 17:00 Behrens, Doris A., Jonathan P. Caulkins, and Gernot Tragler "A Dynamic Game of Two Heterogeneous Regions Suffering from Drug Epidemics"

17:00 – 17:25 Behrens, Doris A. and Reinhard Neck "The Structure of Optimal Decision Rules in a Monetary Union"

17:25 – 17:50 Matveev, Vladimir "Strategic Trade Policy as a Game Problem with Vector-Valued Payoff"

17:50 – 18:15 Radjef, Mohand S. and S. Adjabi "Existence of A objection and counter objection equilibrium in differential game under uncertainty"

### **T3.2 Petrovskii Hall**

#### **Differential Games. Applications in Economics (Chair Georges Zaccour)**

16:35 – 17:00 Cellini, Roberto and Luca Lambertini "Private and Social Incentives Towards Investment in Product Differentiation"

17:00 – 17:25 Jorgensen, Steffen and Georges Zaccour "Retailer Promotions with Negative Brand Image Effects"

17:25 – 17:50 Delenda, Arnaud "An innovative method: WSP"

17:50 – 18:15 Jorgensen, Steffen, Sihem Taboubi and Georges Zaccour "Retail Promotions with Negative Brand Image Effects: Is Cooperation Possible?"

### **T3.3 Auditorium 70**

#### **Cooperative TU Games (Chair Yukihiro Funaki)**

16:35 – 17:00 Borissov, Kirill and Sergei Pechersky "Note on Russian Award Fee Contracts in Principal-Agent Relationships"

17:00 – 17:25 Svetlana I. Tarashnina and Filippova, Yulia V. "Comparison of various political systems on an example of the countries of ex-USSR"

17:25 – 17:50 Kornienko, Elena "Cooperative Multistage Hierarchical Game on a Tree"

17:50 – 18:15 Funaki, Yukihiro and Takehiko Yamato "Credible Coalition Structures with Externalities"

### **T3.4 Museum (Auditorium 44)**

#### **Differential Games Theory, Algorithms (Chair Anatolii F. Kleimenov)**

- 16:35 – 17:00 Kumkov, Sergey I., Valerii S. Patsko, Sergey G. Pyatko and Andrey A. Fedotov "Construction of the Stable Bridge in a Problem of Aircraft Guiding under Wind Disturbances"
- 17:00 – 17:25 Kumkov, Sergey S. and Valerii S. Patsko "Level Sweeping of the Value Function in Linear Differential Games"
- 17:25 – 17:50 Lukoyanov, Nikolai Yu. "Necessary and Sufficient Conditions for the Value of a Differential Game with Hereditary Information"
- 17:50 – 18:15 Kleimenov, Anatolii F. and Sergei I. Osipov "Stackelberg Positional Strategies in a Two Persons Hierarchical Differential Game with Disturbance"

### **Wednesday, July 10**

<b>9:00 – 10:00</b>	<b>Plenary Talk (5)</b>	<b>Assembly Hall</b>
<b>10:00 - 11:00</b>	<b>Plenary Talk (6)</b>	<b>Assembly Hall</b>
<b>11:00 - 11:30</b>	<b>Break</b>	
<b>11:30 – 13:10</b>	<b>Parallel Sessions (T1)</b>	
<b>13:10 – 14:40</b>	<b>Lunch</b>	
<b>14:40 - 16:20</b>	<b>Parallel Sessions (T2)</b>	
<b>16:20 – 16:35</b>	<b>Break</b>	
<b>16:35 – 17:50</b>	<b>Parallel Sessions (T3)</b>	

#### **Plenary Talk 4**

#### **Plenary Talk 5**

#### **W1 Parallel Sessions**

##### **W1.1 Assembly Hall**

#### **Cooperative TU Games (Chair Agnieszka Wiszniewska-Matyszek)**

- 11:30 -11:55 Maschler, Michael. "Consistency"
- 11:55 - 12:20 Akimova, Arina N. and Victor V. Zakharov "The Time-Consistency Problem for Quasi-Core in Dynamic TU-Cooperative Games"
- 12:20 - 12:45 Radjef, Mohand S. and S. Adjabi "On the Existence of a Stable Imputation in a Positional Cooperative Differential Game"
- 12:45 – 13:10 Wiszniewska-Matyszek, Agnieszka "Modelling stock exchange by dynamic games with a continuum of players"

##### **W1.2 Petrovskii Hall**

#### **Applications of Differential Games Theory (Chair Pierre Bernhard)**

- 11:30 -11:55 Visudhiphan, Poonsaeng and Marija D. Ilic "On the Necessity of an Agent-based Approach to Assessing Market Power in the Electricity Markets"
- 11:55 - 12:20 Zenkevich, N.A. and O.S. Kozell "One Game-Theoretic Model of Entry Deterrence using Joint Venture"
- 12:20 - 12:45 Yoshida, Yuji, Masami Yasuda, Jun-ichi Nakagami and Masami

Kurano "American Put Option Models with Uncertainty of Stock Prices in Financial Engineering"

12:45 – 13:10 Bernhard, Pierre and Naima El Farouq "An Impulsive Differential Game Arising in Finance With interesting Singularities"

### **W1.3 Auditorium 70**

#### **Minimax, Nash Equilibrium (Chair Lev M. Bregman)**

11:30 -11:55 Ryan, Michael J. "Intervening Duality Strategic Equivalence and Nonconstant Sum Bimatrix Games"

11:55 - 12:20 Bregman, Lev M. and Igor N. Fokin "Nash Equilibrium for Multiperson Resource Allocation Games"

12:20 - 12:45 Chris Stefanadis "Culture, property rights, and economic prosperity"

12:45 – 13:10 Bregman, Lev M. and Tatyana T. Bregman "Product Form Representation for Strategies in Combinatorial Matrix Games"

### **W1.4 Museum (Auditorium 44)**

#### **Differential Game Theory, Algorithms (Chair Jacek B. Krawczyk)**

11:30 -11:55 Rincon-Zapatero, Juan Pablo and Guiomar Martin-Herran "A Direct Method to Compare Efficient and Non-Efficient Payoffs in Differential Games"

11:55 - 12:20 Mukaidani, Hiroaki and Koichi Mizukami "Numerical Algorithm for Solving Cross-Coupled Algebraic Riccati Equations Related to  $H_2/H_\infty$  Control Problem of Singularly Perturbed Systems"

12:20 - 12:45 Mokhonko, Elena Z. "Time-Delayed Information in Some Nonantagonistic Differential Game"

12:45 – 13:10 Mikaelyan, O. "One Differential Game with Preferences"

## **W2 Parallel Sessions**

### **W2.1 Assembly Hall**

#### **Cooperative TU Games (Chair Michele Breton)**

14:40 – 15:05 Gobeler, Frank and Jurgen Scheffran "Extended Power Values and Dynamic Coalition Formation"

15:05 - 15: 30 Masuda, Takeshi and Shigeo Muto "Farsighted Stability in Duopoly Markets with Product Differentiation"

15:30 – 15:55 Melnikov, Valeriy V. "The cooperative model of collective safety system in ecology"

15:55 – 16:20 Breton, Michele, Karima Fredj and George Zaccour "Characteristic functions, coalitions Stability and free-riding in a game of pollution control"

### **W2.2 Petrovskii Hall**

#### **Differential Games. Applications in Economics and Management (Chair Alain Haurie)**

14:40 – 15:05 McKelvey, Robert and Peter V. Golubtsov "The Effects of Incomplete Information in Stochastic Common-Stock Harvesting Games"

15:05 - 15:30 Mazalov, Vladimir V. and Anna N. Rettieva "On a reserved territory approach for a resource management problem"

- 15:30 – 15:55 Krawczyk, Jacek B. and Mabel Tidball "Economic Coordination in an Environmental Dynamic Game"  
 15:55 – 16:20 Alain Haurie “Multi-time scale models for global climate change policy assessment”

**W2.3 Auditorium 70**

**Search Games (Chair Shmuel Gal)**

- 14:40 – 15:05 Mestnikov, S.V. "Approximation of the information set in a differential search game with a detail of pursuers"  
 15:05 - 15: 30 Kikuta, Kensaku "A Search Game on a Cyclic Graph"  
 15:30 – 15:55 Gal, S. and J.V. Howard "Rendezvous search in n cells with incomplete information"  
 15:55 – 16:20 Gal, Shmuel "On a Minimax Property of Geometric Trajectories"

**W2.4 Museum (Auditorium 44)**

**Differential Games Theory, Algorithms (Chair David W. K. Yeung)**

- 14:40 – 15:05 Soravia, Pierpaolo "On Feedback Solutions of the  $H_{\infty}$  Control Problem for Nonlinear Systems"  
 15:05 - 15: 30 Virtanen, Kai, Tuomas Raivio and Raimo P. Hamalainen "An Influence Diagram Approach to One-on-One Air Combat"  
 15:30 – 15:55 Subbotina, Nina N. "Sufficient Optimality Conditions for Feedbacks to Control Problems"  
 15:55 – 16:20 Yeung, David W. K. "Infinite-Time Stochastic Differential Games with Uncertainty in Number and Types of Players"

**Thursday, July 11**

<b>10:00 - 11:40</b>	<b>Parallel Sessions (Th)</b>	
<b>11:40 - 12:00</b>	<b>Break</b>	
<b>12:00 – 12:30</b>	<b>Closing Ceremony</b>	<b>Assembly Hall</b>
<b>Afternoon</b>	<b>Excursions</b>	

**Th1 Parallel Sessions**

**Th1.1 Assembly Hall**

**Non-cooperative Games and Applications (Chair Nikolay A. Zenkevich)**

- 10:00 - 10:25 Pusillo, Lucia “Well-posedness for non-cooperative games and ordinality”  
 10:25 - 10:50 Zavalova, Tatjana “The analysis of stability of non-linear stochastic system with random impulse in condition of shock of phase vector”  
 10:50 – 11:15 Laraki, Rida “The splitting game and applications”  
 11:15– 11:40 Martin-Herran, Guiomar and Juan Pablo Rincon-Zapatero "On Efficient Subgame Perfect Nash Equilibria in Dynamic Fishery Games"

### **Th1.2 Petrovskii Hall**

#### **Applications in Economics and Management (Chair Jose Luis Ferreira)**

- 10:00 - 10:25 Marianna Troeva "Equilibrium in a diffusion conflict model of economy with distributorship"
- 10:25 - 10:50 Ozyildirim, Suheyla "Optimal Settlement Duration Under Holdout Threat"
- 10:50 – 11:15 Azouzi, R. El "Avoiding Paradox in Routing Games in Networks when Travel Demand is Elastic"
- 11:15 – 11:40 Ferreira, Jose Luis "The Role of Observability in Futures Markets"

### **Th1.3 Auditorium 70**

#### **Networking games and Applications (Chair Oleg Nikonov)**

- 10:00 - 10:25 Serov, Vyacheslav P. "Optimal Feedbacks in the Game Dynamic Generalized Shortest Path Problem"
- 10:25 - 10:50 Ouardighi, Fouad El and Federico Pasin "Advertising and Quality Decisions Under Dynamic Conditions"
- 10:50 – 11:15 Yanovskaya, Elena B. and Elena Lezhnina "Flexibility of the Least Core"
- 11:15 – 11:40 Nikonov, Oleg and Yaroslav Minullin "Competition of gas pipeline projects: software, simulations, sensitivity analysis and generalized equilibrium"

### **Th1.4 Museum (Auditorium 44)**

#### **Differential Games and Applications (Chair Michael H. Breitner)**

- 10:00 - 10:50 Breitner, M.H. "Rufus P. Isaacs and the Early Years of Differential Games: A Survey and Discussion Paper"
- 10:50 – 11:15 Guiomar Martin-Herran, Pierre Cartigny, Estelle Motte and Mabel Tidball "Deforestation and Foreign Transfers: A Differential Game Approach"
- 11:15 – 11:40 Meinhardt, Holger "A Dynamic Resource Management Problem"