# Program TORS 2018

## Saturday, April 7, 2018

| Begin | End | Plenary Room | Room 1 |
|---|---|---|---|
| 12:00 | 14:30 | Registration | |
| 14:30 | 15:00 | Opening Session | |
| 15:00 | 16:00 | Plenary Session 1: Pr. Alain Quilliot<br>Title: Emerging Trends and Challenges in O.R<br>Chair: Pr. Ridha Mahjoub | |
| 16:00 | 16:20 | Coffee Break | |
| **Parallel sessions** | | Continuous, Discrete and Stochastic Optimization | Multiple-Criteria Decision Making and Optimization |
| | | Chair: Pr. Sourour Elloumi | Chair: Pr. Taicir Loukil |
| 16:20 | 16:40 | A Multi-Objective Mathematical Model to Improve Enterprises' Performances. **Tayari Mouna, Salah Mohamed Essalah, Boujelben Younes** | Hub Port Location Choice in Tunisia: Application of the PROMETHEE Multicriteria Method. **Rjiba Raja, Aloulou Foued** |
| 16:40 | 17:00 | A Dynamic Programming Method to Solve the Minimax Multi-Period Weighted Substitutable Resources Allocation Problem. **Salah Mohamed Essalah, Boujelbene Younes** | A New Approach for Determining the Criteria Weights in the ARAS Method. **Ghram Maroua, Moalla Frikha Hela** |
| 17:00 | 17:20 | Enforcing Statistical Consistency via Hypothesis Testing. **Zghidi Imen, Rebai Abdelwaheb** | Development of the CODAS-TRI Approach. **Ouhibi Abir, Moalla Frikha Hela** |
| 17:20 | 17:40 | Branch and Cut Method for Solving Integer Indefinite Quadratic Bilevel Programs. **Maachou Nacera, Moulaï Mustapha** | Application of the Choquet Integral in Clustering Method. **Roumeissa Kerboui, Abbas Moncef** |
| 19:00 | 20:30 | Dinner | |

## Program TORS 2018

### Sunday, April 8, 2018

| Begin | End | Plenary Room | Room 1 |
|---|---|---|---|
| 8:30 | 9:30 | **Plenary Session 2: Pr. Belaid Aouni**<br>**Title: A Generalized Approach for Outranking Multi-Criteria Decision Aid Methods**<br>**Chair: Pr. Abdelwaheb Rebai** | |
| **Parallel sessions** | | **Graphs and Networks** | **Heuristics and Metaheuristics** |
| | | Chair: Pr. Alain Quilliot | Chair: Pr. Souhail Dhouib |
| 9:30 | 9:50 | New Metaheuristic for the Maximum Weight Clique Problem. **Zaddem Nadia, Tayachi Dalila** | A Discrete Firefly Algorithm to Solve the Transportation for Disabled People with Loading Constraints and Time Windows. **Najeh Dammak, Dhouib Souhail** |
| 9:50 | 10:10 | On Solving the Generalized Discrete Cost Multicommodity Network Design Problem. **Khatrouch Sonya, Bhar Layeb Safa, Chaouachi Siala Jouhaina** | Scheduling Problems in Pharmaceutical Laboratories: Minimization Makespan. **Belghith Mariem, Elloumi Abdelkarim** |
| 10:10 | 10:30 | Web Service Selection with Parallel Cluster Based Partitioning Approach and Representative Skyline. **Regaieg Sahar, Ben Yahia Saloua, Ben Ahmed Samir** | Vehicle Routing Problem in Collaborative Environment : a Tunisian Case Study. **Rekik Akram, Bhar Layeb Safa, Jaoua Amel , Chaouachi Siala Jouhaina** |
| 10:30 | 10:50 | **Coffee Break** | |
| **Parallel sessions** | | **Decision Analysis, Decision Support Systems, DEA and Performance Measurement** | **Supply Chain Management** |
| | | Chair: Dr. Raoudha Kammoun | Chair: Dr. Soulef Smaoui |
| 10:50 | 11:10 | Energy Productivity in the Mediterranean Countries: A Malmquist Index Analysis. **Eya Jebali, Essid Hédi** | A Generic Model for Reorganizing The Maternity Service Supply Chain. **Khlifi Abdelhakim, Kammoun Raouda** |
| 11:10 | 11:30 | Efficiency Measurement of Tunisian Seaports : Application of Data Envelopment Analysis (DEA). **Mtir Ghada, Aloulou Foued** | Approaches for the Supplier Selection Problems : A Literature Review. **Amal Briki, Soulef Smaoui** |
| 11:30 | 11:50 | Secondary Schools Performance: Analysis with Regression Trees. **Ben Yahia Fatma, Essid Hédi, Rebai Sonia** | Lean Production in Hospital Sterilization Process. **Amira Kammoun, Wafik Hachicha** |
| 11:50 | 12:10 | Modeling Constant Attack Rate Processes in the Presence of Intelligent Threats Using Game Theory. **Ben Yaghlane Asma** | Joint Replenishment Problem in Petroleum Supply Chain Under Stochastic Demand. **Mubiru Kizito** |
| 12:10 | 12:30 | Profitability Criteria for Portfolio Selection: A DEA Game Cross Efficiency Approach. **Ganouati Janet, Essid Hédi, Vigeant Stéphane** | |
| 12:30 | 14:00 | **Lunch** | |

| | | Plenary Session 3: Pr. Sourour Elloumi<br>**Title: Mathematical Programming Formulations for Discrete Location Problems**<br>**Chair: Pr. Naceur Azaiez** | |
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| **14:30** | **15:30** | | |
| **Parallel sessions** | | **Recent Applications in OR** | **Industrial Engineering and Systems Management** |
| | | **Chair: Dr. Hedi Essid** | **Chair: Dr. Sonda Elloumi** |
| **15:30** | **15:50** | Could Hiring Costs Explain the Relationship Between Education and Employment. **Raies Asma, Ben Mimoun Mohamed** | Reengineering of Product Innovation Process: The Case of Tunisian Food Industry. **Fersi Maazoun Bouthaina, Kammoun Raoudha** |
| **15:50** | **16:10** | The two Machines Chain-Reentrant Shop with no-Wait Constraint :New Results. **Amrouche Karim, Sami Nazim, Boudhar Mourad, Bendraouche Mohamed** | Joint Optimization of Maintenance, Inventory and Quality Control Policies. **Bahria Nadia, Chelbi Anis, Harbaoui Dridi Imen, Bouchriha Hanen** |
| **16:10** | **16:30** | Using Lexicographic Goal Programming with Dynamic and Discrete Satisfaction Function to Lodel the Nurse Timetabling. **Fourati Zeineb, Smaoui Soulef, Kamoun Hichem** | Modelling of an Integrated Production-Distribution Planning Problem with Multiple Transportation Modes. **Ben Abid Taycir, Ayadi Omar, Masmoudi Faouzi** |
| **16:30** | **16:50** | Coffee Break | |
| **Parallel sessions** | | **Health and Environment** | **Multiple-Criteria Decision Making and Optimization** |
| | | **Chair: Dr. Abdelkarim Elloumi** | **Chair: Dr. Mohamed Ayman Boujelben** |
| **16:50** | **17:10** | Machine Learning Tools to Determine the Factors Affecting Poverty Status in Palestine. **Baazaoui Mariem**, **Alkhuffash Ola** | Optimal Irrigation Water Allocation with Hybrid Fuzzy AHP and MOP Models. **Elleuch Mohamedali, Ahmed Frikha** |
| **17:10** | **17:30** | Analysis of Public Hospitals' Technical Efficiency in Tunisia Using DEA. **Daoud Marrakchi Miryam** | MAISSA-SP: A Multi-Attribute Inferiority and Superiority Selection Approach Based on Superiority Portions. **Hidouri Moufida, Rebai Abdelwaheb, Allouche Mohamed Anis** |
| **17:30** | **17:50** | Risk Management in the Pharmaceutical Supply Shain: Case of Habib Bourguiba Hospital. **Dhouib Nesrine, Zribi Raoudha, Elleuch Mounir** | A Multicriteria Analysis for Choosing the Best Water Resource for the Irrigation of the Olive Trees. **Daoud Wiem , Moalla Frikha Hela** |
| **19:00** | **20:30** | Dinner | |
| **20:30** | | TORS General Meeting | |

## Program TORS 2018

### Monday, April 9, 2018

| Begin | End | Plenary Room | Room 1 |
|---|---|---|---|
| **Parallel sessions** | | **Multiple-Criteria Decision Making and Optimization** | **Routing, Location, Logistics and Transportation** |
| | | Chair: Dr. Hela Frikha | Chair: Pr. Abdelaziz Dammak |
| 9:00 | 9:20 | A Multicriteria Decision Making for Olive Waste Treatment and Reusing in Tunisia. **Bahloul Manel, Kanoun Ines, Chabchoub Habib** | Planning Problems in a Containers Terminal: A Literature Review. **Lobna Kallel, Mounir Ben Aissa, Hichem Kammoun** |
| 9:20 | 9:50 | An Extension of the FLOWSORT Approach Based on Intuitionistic Fuzzy Theory. **Daami Fedia, Moalla Frikha Hela** | A VRP Variant Dealing with the Problems of Infrastructure-Defaults SVRDPC: Safety Vehicle Routing Diagnosis Problem with Control. **Mouin Benmansour, Elloumi Abdelkarim** |
| 9:50 | 10:10 | Dynamic Goal Programming Approach Variants for Menu Plan Model. **Ichraf Jridi, Smaoui Soulef, Kamoun Hichem** | Assignment of Ships to Berths in a Versatile Port, Case of the Commercial Port of Sfax. **Ammar Bilel, Kammoun Raoudha, Hamani Nadia, Benabdelhafid Abdellatif** |
| 10:10 | 10:30 | Coffee Break | |
| 10:30 | 12:00 | **Workshop:** Chair Dr. Diala Dhouib Karray | |
| 12:00 | 12:30 | **Closing Session & Awards** | |
| 12:30 | 14:00 | **Lunch** | |