

WINNERS OF THE TRACK PAPER PRIZE

This Prize was awarded to the best paper within each Track. All the papers of the track were automatically eligible. The candidates were nominated by the Track Chairs and the winners were determined by a special international Jury taking into account the referee reviews and the reports of session chairs.

• TRACK “Design of Production Systems”

Paper: “Transient Behavior of Two-Machine Geometric Production Lines”.

Authors: Meerkov, Semyon M. (Univ. of Michigan), Shimkin, Nahum (Tech. - Israel Inst. of Tech.), Zhang, Liang (Univ. of Michigan).

• TRACK “Scheduling in Manufacturing Systems”

Paper: “Near Optimal and Optimal Solutions for an Integrated Employee Timetabling and Production Scheduling Problem”.

Authors: Guyon, Olivier (UCO, IMA, LISA), Lemaire, Pierre (École des Mines de Nantes), Pinson, Eric (UCO, IMA, LISA), Rivreau, David (UCO, IMA, LISA).

• TRACK “Production Planning and Logistics”

Paper: “Optimal Control of an Oligopoly Model of Advertising”.

Authors: Prasad, Ashutosh (Univ. of Texas at Dallas), Sethi, Suresh P. (Univ. of Texas at Dallas), Naik, Prasad (Univ. of California, Davis).

• TRACK “Supply Network Engineering”

Paper: “Modelling Competence Demand for Flexible Supply Networks”.

Authors: Sandkuhl, Kurt (School of Engineering at Jönköping Univ.), Tarasov, Vladimir (Jönköping Univ.).

• TRACK “Flexible, Agile and Reconfigurable Manufacturing Systems”

Paper: “Reconfigurable Parallel Kinematic Manipulator for Flexible Manufacturing”.

Authors: Haage, Mathias (Lund Univ.), Dressler, Isolde (Lund Univ.), Robertsson, Anders (LTH, Lund Univ.), Nilsson, Klas (Lund Univ.), Brogírdh, Torgny (ABB AB), Johansson, Rolf (Lund Univ.).

• TRACK “Discrete Event Systems”

Paper: “An FDI Method for Manufacturing Systems Based on an Identified Model”.

Authors: Roth, Matthias (Tech. Univ. Kaiserslautern), Lesage, Jean-Jacques (ENS de Cachan), Litz, Lothar (Univ. of Kaiserslautern).

• TRACK “Advanced Software Engineering in Industrial Automation”

Paper: “Refactoring of Execution Control Charts in Basic Function Blocks of the IEC 61499 Standard”.

Authors: Dubinin, Victor (Univ. of Penza), Vyatkin, Valeriy (Univ. of Auckland).

• TRACK “Probabilistic and Statistical Models in Industrial Plant Control”

Paper: “New Approach to Training of Technical Systems Fault Diagnosis Skills: Use of Probabilistic Models”.

Authors: Dozortsev, Victor (Inst. of Control Sciences), Nazin, Vladimir A. (ZAO Honeywell).

WINNERS OF THE SPECIAL PRIZE OF INTERNATIONAL JURY

Three additional Prizes were awarded to an exceptional paper in each of three principal areas of the symposium:

“Information Systems, Control and Interoperability”

Paper: “An Autonomous Control Strategy Alternative for Critical Industrial Automated Systems”.

Authors: Pacheco, Luciana (Federal Univ. of Bahia), Lepikson, Herman (Federal Univ. of Bahia)

“Artificial Intelligence and Operations Research Techniques”

Paper: “Multi-Objective Maintenance Workforce Scheduling in a Steel Company”.

Authors: Safaei, Nima (Univ. of Toronto), Banjevic, Dragan (Univ. of Toronto), Jardine, Andrew K.S. (Univ. of Toronto).

“Industrial Engineering”

Paper: “Methodology for Assessing System Performance Loss within a Proactive Maintenance Framework”.

Authors: Cochetoux, Pierre (Nancy Univ.), Voisin, Alexandre (Nancy Univ.), Levrat, Eric (Nancy Univ.), Lung, Benoît (Nancy Univ.)

WINNERS OF THE NOC PRIZE

Finally, seven supplementary prizes were awarded to outstanding contributions by NOC:

Paper: “Hierarchical Scheduling of Mobile Robots in Production-Transportation Supply Chains”.

Authors: Levner, Eugene (Holon Inst. of Tech.), Meyzin, Leonid (Holon Inst. of Tech.), Werner, Frank (Otto-von-Guericke-Univ. Magdeburg).

Paper: “Minimizing Total Weighted Tardiness and Flow Time for Unrelated Parallel Machines Scheduling with Matching-Improvement Evolutionary Algorithms”.

Authors: Chyu, Chih-Cheng (Yuan-Ze Univ.), Chang, Wei-Shung (Yuan-Ze Univ.)

Paper: “Lot Sizing with Delivery and Earliness Penalties Problem: The Multi Stage Case (I)”.

Authors: Grunder, Olivier (Univ. of Tech. of Belfort-Montbéliard (SeT/UTBM)), Wang, Deyun (Univ. of Tech. of Belfort-Montbéliard), Elmoudni, Abdellah Elmoudni (Lab. of systems and Transport SeT).

Paper: “Optimization of Machining Modes for Multi-Head Machines under Group Replacement of Tools (I)”.

Authors: Levin, Genrikh (National Acad. of Sciences), Rozin, Boris (United Inst. of Informatics Problems).

Paper: “Algorithms for Dynamic Switching of Collaborative Human-Robot System in Target Recognition Tasks”.

Authors: Tkach, Itshak (Ben-Gurion Univ.), Edan, Yael (Ben-Gurion Univ.)

Paper: “A Novel Information Modelling Approach for Representing Parallel Kinematic Machine Tools”.

Authors: Vichare, Parag (Univ. of Bath), Nassehi, Aydin (Univ. of Bath), Newman, Stephen Thomas (Univ. of Bath)

Paper: “Assisted Research of the New Mathematical Model for the Magnetorheological Damper”.

Authors: Olaru, Serban (Univ. Pol. of Bucharest), Olaru, Adrian (Univ. Pol. of Bucharest)