



23rd Conference of the Society for Medical Innovation and Technology

In conjunction with
ISRACAS 2011
14th Israeli Symposium on
Computer-Aided Surgery,
Medical Robotics and Medical Imaging

Tel Aviv, Israel September 13-16, 2011

SCIENTIFIC PROGRAM



TENTATIVE SCIENTIFIC PROGRAM

at July 31, 2011

WEDNESDAY, SEPTEMBER 14, 2011

08:00 Registration opens

09:00 – 09:15

Welcome

Hall A

09:00

INTRODUCTION AND GREETINGS

Amir Szold, SMIT 2011 President and Conference Chair, Assia Medical Group, Assuta Medical Center, Tel Aviv, Israel

Moshe Shoham, Conference Co-Chair, Technion, Israel Institute of Technology, Haifa, Israel

Leo Joscowicz, Program Chair, Hebrew University of Jerusalem, Jerusalem, Israel

IIOS Training Event: FROM MOLECULAR IMAGING TO IMAGE GUIDED MOLECULAR THERAPY INCLUDING MRGFUS AND IMAGING GUIDED DRUG DELIVERY

(GE Healthcare sponsored event)

09:15 – 10:30

Plenary Session

Hall A

CRYSTAL BALL SESSION 1

09:15

ORTHOPEDICS: CHALLENGES OF TECHNOLOGY INTEGRATION AND COMPUTER ASSISTED SURGERY

Meir (Iri) Liebergall, Israel

09:45

THE FUTURE OF SURGICAL SIMULATION - UPDATE ON THE NEW AMERICAN NATIONAL INITIATIVE

Richard M.M. Satava, USA

10:30

Coffee Break, Visit the Exhibition, Poster Viewing



WEDNESDAY, SEPTEMBER 14, 2011 (continued)

11:00 – 12:20

Parallel Session 1 - A

Hall A

FREE PAPERS - MINIMALLY INVASIVE SURGERY 1

- 11:00 LAPAROENDOSCOPIC SINGLE SITE SLEEVE GASTRECTOMY: TECHNIQUE AND EARLY RESULTS
Marco Maria Lirici, Leonidas Alevizos, Italy
- 11:15 AUTOMATIC PROCEDURE FOR LAPAROSCOPIC CAMERA CALIBRATION: A COMPARATIVE STUDY OF IMAGE DISTORTION USING DIFFERENT COMBINATIONS OF LAPAROSCOPES AND ENDOSCOPIC CAMERAS
Juan A. Sánchez-Margallo, Francisco M. Sánchez-Margallo,
Francisco J. Pérez-Duarte, José Moreno, Spain
- 11:30 ENHANCED INSTRUMENT DETECTION WITH A TIME OF FLIGHT 3-D ENDOSCOPE USING RANGE FILTERING
Sarah Hempel, Julian Stoettinger, Kurt Hoeller, Rainer Engelbrecht, Joachim Hornegger, Hubertus Feussner, Germany
- 11:45 MICROLAPAROSCOPIC INSTRUMENTS WITH 5MM END EFFECTORS – THE NEW CONCEPT OF MIS
Yoav Mintz, Santiago Horgan, Danny Farin, Shaul Shochat, Adrian Paz, Israel
- 12:00 LAPAROSCOPIC INTRACORPOREAL RECTAL TRANSECTION WITH A CURVED CUTTER: AN ORIGINAL TECHNIQUE IN A SERIES OF 34 PATIENTS
Marco Maria Lirici, Alevizos Leonidas, Italy
- 12:15 OVER-THE-SCOPE-CLIP (OTSC) CLOSURE OF A SUICIDAL THROAT STAB IN THE PHARYNX
Nicola Di Lorenzo, Federico Iacopini, Gabriel Scozzarro, Claudio Arcudi, Marc Oliver Schurr, Achille Lucio Gaspari, Agostino Scozzarro, Italy

11:00 – 12:30

Parallel Session 1 - B

Hall B

FREE PAPERS – ORTHOPEDICS

- 11:00 THE LEARNING CURVE OF ROBOTICALLY ASSISTED UKA
Riyaz H. Jinnah, **Sharon H. Branch**, Tamas Erdos, Michael A. Conditt, USA
- 11:15 ROBOT ASSISTED UNICOMPARTMENTAL KNEE ARTHROPLASTY: OUTCOMES OF 500 CONSECUTIVE PROCEDURES
Maria S. Goddard, Jason E. Lang, J. Samuel Bircher, Bo Lu, Gary G. Poehling, **Michael A. Conditt**, Riyaz H. Jinnah, USA

WEDNESDAY, SEPTEMBER 14, 2011 (continued)

11:00 – 12:30	Parallel Session 1 – B (continued)	Hall B
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11:30	ROBOTICALLY ASSISTED UKA IS MORE ACCURATE THAN MANUALLY INSTRUMENTED UKA Thomas M. Coon, Matthew D. Driscoll, Sharon H. Branch , Michael A. Conditt, USA	
11:45	CLINICAL ASSESSMENT OF ROBOTIC-GUIDED SPINAL IMPLANT PLACEMENT Doron Dinstein , Israel	
12:00	THE ORTHOSPACE'S INSPACE™ BALLOON USED FOR MASSIVE IRREPARABLE ROTAOR CUFF TEAR: PRELIMINARY RESULTS OF AN ISRAELI MULTI CENTER STUDY Eran Maman, Eliyahu Adar, Assaf Dekel , Michael Bernstein, Ehud Atoun, Ofer Rak, Gavriel Mozes, Israel	
12:15	A NOVEL TECHNIQUE FOR SIMPLIFIED DISTAL INTERLOCKING OF INTRAMEDULLARY NAILS TO REDUCE RADIATION EXPOSURE Josh E. Schroeder , Ladina Fliri, Meir Liebergall, Geoff Richards, Markus Windolf, Israel	

12:30 – 13:15	Plenary Session	Hall A
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JOHN ABELE TECHNOLOGY LECTURE

FROM IDEA TO COMMERCIALIZATION IN THE ACADEMIC HOSPITAL SETTING: CHALLENGES FOR THE FUTURE OF MEDICINE
Rafael Beyar, Israel

13:15 *Lunch*

14:00 – 15:30

Parallel Session 2 - A

Hall A

FREE PAPERS - IMAGING AND GUIDED INTERVENTIONS

- 14:00 ALGORITHM FOR COMPANDING HDR MAMMOGRAPHY IMAGES
Lonia Kanelovitch, **Hedva Spitzer**, Miri Sklair-Levi, Yakov Itzchak, Israel
- 14:15 DIFFUSION TENSOR AND COMPARTMENTATION MRI REVEAL BREAST MICROSTRUCTURE AND MALIGNANT TRANSFORMATION
Edna Furman-Haran, Myra Feinberg-Shapiro, Dov Grobgeld, Noemi Weisenberg, Erez Eyal, Raphel Catane, **Hadassa Degani**, Israel
- 14:30 CT-GUIDED PERCUTANEOUS INTERVENTIONS USING A NEEDLE GUIDANCE SYSTEM
Joachim Kettenbach, Gabriel von Allmen, Yanik Bütikofer, Andreas Christe, Switzerland
- 14:45 TAPPING ROBOT FOR MRI GUIDED PROSTATE INTERVENTIONS: ONGOING RESEARCH AND FUTURE APPLICATIONS
Peter T. Dijkstra, Michiel R. van den Bosch, Marinus A. Moerland, Leonard J. Van Schelven, Joris E.N. Jaspers, The Netherlands
- 15:00 MRI GUIDED FOCUSED ULTRASOUND ACTIVATED NANO ENCAPSULATED TARGETED DRUG DELIVERY
Doudou Xu, Andreas Melzer, Lijun Wang, Sandy Cochran, Paul Prentice, Ritu Malik, Bjoern Gerold, Jallal Gnaim, Fabian Arditti, Nazik Arar, Dana Gourevich, Osnat Dogadkin, Yelena Vachutinsky, Yoav Medan, Alex Volovyk, UK
- 15:15 PROTOTYPE OF MR COMPATIBLE GUIDEWIRE VERSUS NITINOL BASED GUIDEWIRE IN A SALINE FILLED PHANTOM. A COMPARISON OF RF HEATING IN 1,5 T MR SCANNER
Malgorzata Wolska-Krawczyk, Martin Rube, Erwin Immel, Rachel J. Toomey, Fabiola Fernandez-Guiterrez, Arno Buecker, Andreas Melzer, Germany
- 15:30 *Coffee Break, Visit the Exhibition, Poster Viewing*



WEDNESDAY, SEPTEMBER 14, 2011 (continued)

14:00 – 15:30

Parallel Session 2 - B

Hall B

FREE PAPERS - NEUROSURGERY AND ORTHOPEDICS

- 14:00 A METHOD FOR REDUCED RISK TRAJECTORY PLANNING IN IMAGE-GUIDED KEYHOLE NEUROSURGERY
Reuben R. Shamir, Leo Joskowicz, Idit Tamir, Martin Horn, Tobias Blum, Nassir Navab, Jan H. Mehrkens, Yigal Shoshan, Israel
- 14:15 ROBOT ASSISTED STROKE THERAPY - ARMOR
Gernot Kronreif, Wolfgang Ptacek, Austria
- 14:30 SEGMENTATION OF BRAIN TUMORS IN LONGITUDINAL MRI SCANS
Lior Weizman, Liat Ben Sira, Leo Joskowicz, Ben Shofty, Shlomi Constantini, Dafna Ben Bashat, Israel
- 14:45 USABILITY EVALUATION OF A NEUROSURGICAL ROBOT
Gernot Kronreif, Wolfgang Ptacek, Martin Kornfeld, Martin Fuerst, Austria
- 15:00 A MORE PATIENT FRIENDLY METHOD FOR BONE CORRECTION
Peter T. Dijkstra, Ralph J. Sakkers, Alies J. van der Wal, Joris E.N. Jaspers, The Netherlands
- 15:15 SURFACE SCANNING AND COMPUTERIZED MODEL GENERATION USING HAPTIC CONTROL ROBOTIC SYSTEM FOR SURGICAL ORTHOPEDIC PROCEDURES
Ifat Gertler, Yoel Shapiro, Alon Wolf, Israel
- 15:30 *Coffee Break, Visit the Exhibition, Poster Viewing*



15:45 – 16:30

Plenary Session

Hall A

JOHN WICKHAM LECTURE

HFUS and MRI INTERVENTIONS – THE FUTURE IS HERE
Andreas Melzer, UK

16:30 – 18:00

Parallel Session 3 - A

Hall A

FUSIMO SESSION: IMAGE GUIDED THERAPY OF MOVING ORGANS

MRGFUS EXABLATE OVERVIEW WITH ELABORATION ON LIVER TREATMENTS (PAST & FUTURE)

Yoav Levy

WORK FLOW ANALYSIS

Jenny Dankelman, The Netherlands

NUMERICAL MODELING AND SIMULATION FOR PATIENT-SPECIFIC ONCOLOGIC INTERVENTION PLANNING

Stefan Braunewell, Germany

AN IDEAL MRGFUS WORKFLOW

Frank Lindseth, Norway

4D MOTION MODELLING

Christine Tanner

16:30 – 18:00

Parallel Session 3 - B

Hall B

FREE PAPERS - NAVIGATION, IMAGE INTERVENTIONS, IMAGING

16:30 ROBOTIC CONTROL AND NAVIGATION FOR FLEXIBLE ENDOSCOPY

Kevin Cleary, Craig Peters, Emmanuel Wilson, Kristen LeRoy, James Goldie, USA

16:45 SEMI-ACTIVE RESONANT MARKERS FOR INTERVENTIONAL DEVICE LOCALIZATION IN PHANTOM EXPERIMENTS AND IN A THIEL EMBALMED CADAVER MODEL IN 1.5T REAL-TIME MR IMAGING

Martin A. Rube, Erwin Immel, Rachel J. Toomey, Malgorzata Wolska-Krawczyk, Andreas Melzer, Germany

17:00 MARKERLESS AUGMENTED REALITY (AR) GUIDANCE WITH OPTICAL TECHNIQUES FOR 3D SURFACE RECONSTRUCTION

Lena Maier-Hein, A. Groch, S. Haase, T. Kilgus, S. Mersmann, A. Seitel, K. Yung, T.R. dos Santos, J. Hornegger, H.-P. Meinzer, Germany

17:15 NAVIGATION SYSTEM WITH CONTACT FORCE ASSESSMENT TO GUIDE PULMONARY VEIN ISOLATION PROCEDURES

Martin Koch, Arne Langenkamp, Atilla Kiraly, Alexander Brost, Norbert Strobel, Joachim Hornegger, Germany

17:30 CLINICAL POTENTIAL OF DECLIPSE SPECT – PROVIDING INTRA-OPERATIVE 3D IMAGING FOR IMAGE GUIDED TUMOR SURGERY

Stefan Wiesner, **Michael Friebe**, Nassir Navab, Thomas Wendler, Joerg Traub, Germany

WEDNESDAY, SEPTEMBER 14, 2011 (continued)

16:30 – 18:00

Parallel Session 3 – B (continued)

Hall B

FREE PAPERS - NAVIGATION, IMAGE INTERVENTIONS, IMAGING

17:45 LEG LENGTH AND OFFSET MEASUREMENTS IN NAVIGATED TOTAL HIP REPLACEMENT (THA)

Madi El-Haj, Yoav Mattan, Leonid Kandel, Gurion Rivkin, Omri Lubovski, Meir Liebergall, Israel

THURSDAY, SEPTEMBER 15, 2011

08:00 Registration opens

IIOS Training Event

HUMAN MACHINE INTERFACE AND INTERACTION

(TUD sponsored event)

09:00 – 10:30

Plenary Session

Hall A

CRYSTAL BALL SESSION 2

09:00 **CARDIOLOGY**
TECHNOLOGY IN CV MEDICINE: THE CHANGING LANDSCAPE
Peter J. Fitzgerald, USA

09:40 **NEUROSURGERY**
BRAIN -MACHINE INTERFACES AND THE FUTURE OF NEUROSURGERY
Itzhak Fried, Israel

10:10 HIGH INTENSITY FOCUSED ULTRASOUND FOR BRAIN DISORDERS
Sagi Harnof, Israel

10:30 *Coffee Break, Visit the Exhibition, Poster Viewing*



THURSDAY, SEPTEMBER 15, 2011 (continued)

11:00 – 12:30

Parallel Session 4 - A

Hall A

"THINKERING" - THINKING AND PLANNING IS NOT WHAT YOU THINK IT IS!

- 11:00 "SURGERY"
THINKING SURGICAL - MOVEMENT, POSTURE, MATERIALS AND DISCOVERIES
Amir Szold, SMIT 2011 President and Conference Chair, Israel
- 11:30 "SECURITY"
RANDOM SECURITY: ACTION BASED ON SENSELESS INFORMATION
Ilan Naor, Israel
- 12:00 "DESIGN"
THINKING DESIGN
Daniel Charny, UK
- 12:30 *Lunch*
SMIT Steering Committee Meeting (Galleria Hall)
-

11:00 – 12:30

Parallel Session 4 - B

Hall B

FREE PAPERS - MINIMALLY INVASIVE SURGERY 2

- 11:00 HAPTIC MEASUREMENT AND FEEDBACK CONTROL FOR MINIMALLY INVASIVE ROBOTIC SURGERY
Zhaohong Xu, Chengli Song, China
- 11:15 DEVELOPMENT OF A NEW MULTI-CHANNEL PORT FOR SINGLE INCISION ENDOSCOPIC SURGERY
Eiji Kanehir, Kunihisa Shiozawa, Takashi Tanida, Aya Kamei, Maeng Bong Jin, Kunihiro Miyauchi, Japan
- 11:30 RATIONALE OF BENDABLE GRASPING FORCEPS IN SINGLE INCISION ENDOSCOPIC SURGERY
Takashi Tanida, Eiji Kanehira, Kunihisa Shiozawa, Aya Kamei, Maeng Bong Jin, Kunihiro Miyauchi, Japan
- 11:45 IS LAPAROSCOPIC RECTAL RESECTION FOR CANCER SAFE? RESULTS OF A METANALYSIS
Alberto Arezzo, Roberto Passera, Mauro Verra, Mario Morino, Italy
- 12:00 A MECHANICAL ROBOTIC ARM WITH ANTHROPOMORPHIC GRIPPER END- EFFECTOR FOR LAPAROSCOPIC SURGERY
Nir Shvalb, Boaz Ben Moshe, Yoav Mintz, Israel
- 12:15 SHAPE MEMORY DEVICES FOR COMPRESSION COALESCENCE OF TISSUE DEFECT VERGES
Boaz Harari, Leonid Monassevitch, Yael Nir, Itay Itzhaky, Israel

THURSDAY, SEPTEMBER 15, 2011 (continued)

12:30 *Lunch*
SMIT Steering Committee Meeting (Galleria Hall)

13:15 – 14:00 Plenary Session Hall A

GERHARD BUESS LECTURE

13:15 TITLE TBA
Paolo Dario, Italy

14:00 – 15:00 Parallel Session 5 - A Hall A

MAN MACHINE INTERFACES IN SURGICAL SIMULATION

14:00 PATIENT SPECIFIC DIGITAL MODELS OF ANATOMY FOR CLINICAL USE
Leo Joskowicz, Israel

14:30 FORCE FEEDBACK IN SKILLS TRAINING
Jenny Dankelman, The Netherlands

14:00 – 15:00 Parallel Session 5 - B Hall B

THINGS WE SHOULD ALL KNOW !!

14:00 "MONEY"
INSIGHTS INTO VENTURE CAPITAL
Michal Geva, Israel

14:30 "INTELLECTUAL PROPERTY"
Speaker TBA

15:00 *Coffee Break, Visit the Exhibition, Poster Viewing*



THURSDAY, SEPTEMBER 15, 2011 (continued)

15:30 – 17:00

Parallel Session 6 - A

Hall A

FREE PAPERS – CARDIOVASCULAR

- 15:30 COMPUTER AIDED SIMPLE TRIAGE FOR CORONARY CT ANGIOGRAPHY
Roman Goldenberg, Dov Eilot, Grigory Begelman, Eugene Walach,
Eyal Ben-Ishai, Nathan Peled, Israel
- 15:45 DIAPHRAGM PACING FOR ACUTE VENTILATOR WEANING IN THE INTENSIVE
CARE UNIT: CHANGING THE PARADIGM
Raymond P. Onders, USA
- 16:00 NON-RIGID REGISTRATION OF THE HEART'S LV SURFACE FOR THE
ASSESSMENT OF MYOCARDIAL REGIONAL FUNCTION IN CARDIAC CT IMAGE
DATA
Yeichiel Lamash, Anath Fischer, Jonathan Lessick, Israel
- 16:15 BRAIN EMBOLIC PROTECTION - SHEF DEVICE FOR STROKE PROTECTION
DURING CARDIOLOGY PROCEDURES - FIRST IN HUMAN (FIH) SINGLE CENTER
STUDY
Dov Shimon, Pieter R. Stella, Israel
- 16:30 AN EFFICIENT, ROBUST FRAMEWORK FOR SIMULATING
THE BEATING HEART
Takashi Ijiri, Takashi Ashihara, Nobuyuki Umetani, Takeo Igarashi,
Ryo Haraguchi, Hideo Yokota, Kazuo Nakazawa, Japan
- 16:45 REALVIEW IMAGING: HOLOGRAPHIC 3D/4D INTERACTIVE MEDICAL DISPLAY
Elchanan Bruckheimer, Israel
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15:30 – 17:00

Parallel Session 6 - B

Hall B

FREE PAPERS – ROBOTICS, VIDEO SYSTEMS

- 15:30 ROBOTIC SURGERY: PAST AND FUTURE PERSPECTIVES
Brian L. Davies, UK
- 15:45 A PHOTONIC DIAGNOSTIC TOOLKIT FOR ROBOTIC SURGERY
Mario E. Giardini, Nikola Krstajic, Gajendra P. Singh,
Praveen C. Ashok, David Stevenson, Thomas F. Krauss,
Kishan Dholakia, Wilson Sibbett, Christian T.A. Brown, UK
- 16:00 DEVELOPMENT OF A ROBOTIC SURGICAL INSTRUMENT FOR MINIMALLY
INVASIVE SURGERY ROBOT
Man Bok Hong, **Yung-Ho Jo**, Republic of Korea
- 16:15 SYSTEM ARCHITECTURE AND MAGNETIC ANCHORING FOR
ROBOTIC NOTES
Kevin Cleary, Haifeng Luo, Emmanuel Wilson, Stephen Oonk, USA

THURSDAY, SEPTEMBER 15, 2011 (continued)

15:30 – 17:00 Parallel Session 6 – B (continued) Hall B

16:30 EXPERIMENTAL ASSESSMENT OF A NOVEL ROBOTICALLY DRIVEN
ENDOSCOPIC CAPSULE FOR COLONOSCOPY: A COMPARATIVE STUDY
Alberto Arezzo, Arianna Menciassi, Pietro Valdastrì, Gastone Ciuti,
Gioia Lucarini, Marco Salerno, Christian Di Natali, Mauro Verra,
Paolo Dario, Mario Morino, Italy

16:45 SWIMMING CAPSULE ENDOSCOPE
Gabor Kosa, Gabor Szekely, Israel

17:00 – 18:00 Plenary Session Hall A

SHIZIM 2011 BIOMED COMPETITION

Presentations of the three best final projects, followed by the
announcement of the First Prize Winner and Awards Ceremony.
1st Prize to be presented by Yossi Bornstein, President of the Shizim Group

18:00 SMIT General Assembly (Hall B)

FRIDAY, SEPTEMBER 16, 2011

07:30 MITAT Editorial Board Meeting (Galleria Hall)

08:30 Registration opens

09:00 – 10:30

Plenary Session

Hall A

CRYSTAL BALL SESSION 3

Medicine in the Battlefield

Chair: **Gil Hirschhorn**, Israel

FUTURE TECHNOLOGIES FOR THE CARE OF BATTLEFIELD INJURIES -
EVACUATION, REMOTE CARE AND MONITORING

Gil Hirschhorn, Israel

MEDICAL INFORMATION IN THE BATTLEFIELD

Aviram Weiss, Israel

ROBOTIC RESUSCITATION AND LIFE-SUPPORT DEVICES

George Beck, USA

UNMANNED EVACUATION HELICOPTERS

Speaker TBA

ROBOTICS IN THE FUTURE OF FIELD MEDICAL CARE

Elon Glassberg, Israel

10:30 *Coffee Break and Poster Viewing*



11:00 – 12:30

Parallel Session 7 – A

Hall A

FREE PAPERS - MINIMALLY INVASIVE SURGERY 3

11:00 PRELIMINARY IN VIVO LAPAROSCOPIC PROCEDURES WITH A MAGNETIC
LEVITATION CAMERA

Claudio Arcudi, Alessandra Lazzaro, Andrea Divizia, Luca Iezzi,
Nicola Di Lorenzo, Achille L. Gaspari, Massimiliano Simi,
Pietro Valdastrì, Arianna Menciassi, Paolo Dario, Italy

11:15 ENDOSCOPIC TREATMENT OF COLORECTAL POST-SURGICAL FISTULAS
USING AN OVER-THE-SCOPE-CLIP (OTSC)

Alberto Arezzo, Mauro Verra, Rossella Reddavid, Francesca Cravero, Marco Bonino,
Mario Morino, Italy

11:30 IT'S TIME FOR INTERNAL RETRACTION DEVICES

Yoav Mintz, Ram Elazary, Mahmoud Abu Gazala, Avraham I. Rivkind,
Santiago Horgan, Israel

FRIDAY, SEPTEMBER 16, 2011 (continued)

11:00 – 12:30	Parallel Session 7 – A (continued)	Hall A
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11:45	TBA	
12:00	STANDARD LAPAROSCOPY VS LAPARO-ENDOSCOPIC SINGLE-SITE SURGERY; HOW MUCH FORCE IS APPLIED? Tim Horeman , Desislava D. Kurteval, John J. van den Dobbelsteen, Pietro Valdastrì, Frank W. Jansen, Jenny Dankelman, The Netherlands	
12:15	AN EASY TO USE INSTRUMENT POSITIONER FOR MINIMALLY INVASIVE SURGERY Jesse Bosma, Joris E.N. Jaspers , The Netherlands	

11:00 – 12:30	Parallel Session 7 –B	Hall B
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FREE PAPERS I.P., DESIGN SYSTEMS, OPERATING ROOMS

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| 11:00 | COMPUTER SIMULATION FOR ERGONOMICS AND WORKFLOW IMPROVEMENT IN MULTIMODAL IMAGE GUIDED INTERVENTIONS:
A NEW APPROACH
Fabiola Fernández-Gutiérrez , Rachel J. Toomey, Graeme Houston, Malgorzata Wolska-Krawczyk, Ole Jacob Elle, Arno Buecker, Andreas Melzer, UK |
| 11:15 | A NEW HANDLE DESIGN FOR MINIMALLY INVASIVE SURGERY
Marcos Lucas-Hernández, Francisco M. Sánchez-Margallo, Juan A. Sánchez-Margallo, Francisco J. Pérez-Duarte , Purificación Castelló, Alfonso Oltra, José Blas Pagador, Spain |
| 11:30 | VALIDATION OF EDEST® ELECTRONIC DEVICE FOR ENDOSURGICAL SKILLS TRAINING
Miguel A. Sánchez-Hurtado, Francisco M. Sánchez-Margallo, Idoia Díaz-Güemes Martín-Portugués, José Luis Moyano-Cuevas, Silvia Enciso-Sanz, Luisa F. Sánchez-Peralta , Jesús Usón Gargallo, Spain |
| 11:45 | MEDICAL OPERATION EQUIPMENT BASED ON NANOSTRUCTURED PSZ CRYSTALS
Makhail A. Borik, Vladimir T. Bublik, Alexey V. Kulebyakin , Elena E. Lomonova, Valentina A. Mizina, Filipp O. Milovich, Vyacheslav V. Osiko, Vitaliy A. Panov, Nataliya Yu Tabachkova, Russia |

FRIDAY, SEPTEMBER 16, 2011 (continued)

11:00 – 12:30 Parallel Session 7 –B (continued) Hall B

12:00 WIRELESS TRANSMISSION FROM THE PERITONEAL CAVITY FOR A
MINIATURE HD CAMERA DURING MINIMALLY INVASIVE SURGERY
Noam Livneh, Mahmoud Abu-Gazala, Yoav Mintz, Israel

11:15 RADIO FREQUENCY IDENTIFICATION APPLIED TO LAPAROSCOPIC
TOWERS: MAINTENANCE, PROJECT AND TESTING
Nicola Di Lorenzo, Alessandra Lazzaro, Arianna Corona, Luca Iezzi,
Luca Armisi, Silvia Colangelo, Giorgio Coscarella, Achille L. Gaspari,
Nicola Rosato Italy

12:30 *Lunch*

13:15 – 14:45 Parallel Session 8 – A Hall A

MINIMALLY INVASIVE SURGERY

Chair: **Yoav Mintz**, Israel

Speakers TBA

13:15 – 14:45 Parallel Session 8 – B Hall B

FREE PAPERS – POTPOURRI

13:15 LASER BONDING OF TISSUES
Abraham Katzir, Israel

13:30 CO-DEVELOPMENT AND CLINICAL EVALUATION OF THE VASCULUMINATOR,
A DEVICE FACILITATING BLOOD WITHDRAWAL BY VISUALIZATION OF
SUBSURFACE BLOOD VESSELS
Joris E.N. Jaspers, Natascha Cuper, Rowland de Roode, Luuk Evers,
Rudolf Verdaasdonk, The Netherlands

13:45 VIBRATION RESPONSE IMAGING AS A NEW TOOL FOR OUTCOME
ASSESSMENT OF INTERVENTIONAL BRONCHOSCOPY: A MULTI-CENTER
VALIDATION STUDY
Heinrich D. Becker, Matthias Slawik, Teruomi Miyazawa, Ali I. Musani,
Hervé Dutau, Momen M. Wahidi, Merav Gat, Germany

FRIDAY, SEPTEMBER 16, 2011 (continued)

13:15 – 14:45	Parallel Session 8 – B (continued)	Hall B
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14:00	EFFECTS OF OXYTOCIN ON LABOR PROGRESS BASED ON CONTINUOUS LABOR MONITORING Ofer Barnea , Svetlana Kaminski, Yuri Megel, Oded Luria, Jacob Bornstein, Israel	
14:15	AN INTEGRATED CLUSTERING ALGORITHM AND ITS APPLICATION IN SURGICAL NAVIGATION Shiju Yan , Chengli Song, China	
14:30	REMOTE USER INTERFACES FOR CENTRALIZED CONTROL IN THE INTEGRATED OPERATING ROOM Stefan Bohn , Tobias Hilbert, Stefan Franke, Oliver Burgert, Germany	

14:45 – 15:00	Closing Addresses	Hall A
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CLOSING REMARKS AND ADJOURNMENT

Amir Szold, SMIT 2011 President and Conference Chair, Israel
Moshe Shoham, Conference Co-Chair, Israel