



## 23rd Conference of the Society for Medical Innovation and Technology

*In conjunction with*  
**ISRACAS 2011**  
**14<sup>th</sup> Israeli Symposium on**  
**Computer-Aided Surgery,**  
**Medical Robotics and Medical Imaging**

Tel Aviv, Israel September 13-16, 2011

### SCIENTIFIC PROGRAM



**WEDNESDAY, SEPTEMBER 14, 2011**

08:00 Registration opens

**IIIOS/FUSIMO Training Event**  
**FROM MOLECULAR IMAGING TO IMAGE GUIDED MOLECULAR THERAPY**  
**INCLUDING MRgFUS AND IMAGE GUIDED DRUG DELIVERY**  
*(GE Healthcare sponsored event, all day in Hall A)*

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09:00 – 09:15 Welcome Hall A

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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 Jaskowicz**, Program Chair, Hebrew University of Jerusalem, Jerusalem, Israel

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09:15 – 10:30 Plenary Session Hall A

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**CRYSTAL BALL SESSION 1**

Chairpersons: **Leo Jaskowicz**, Israel  
**Moshe Shoham**, Israel

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. Satava**, USA

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



**WEDNESDAY, SEPTEMBER 14, 2011** (continued)

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11:00 – 12:30

Parallel Session 1 - A

Hall A

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**IIIOS/ FUSIMO SESSION I**

Chairperson: **Bengt Nielsen**, Sweden

11:00 IMAGE GUIDED THERAPY DEVELOPMENTS  
**Len Fass**, UK

11:30 TARGETED THERAPY USING A NANO-PARTICLE APPROACH  
**Bertrand Loubaton**, France

12:00 DIAGNOSTIC POSSIBILITIES WITH MOLECULAR IMAGING  
**Bengt Nielsen**, Sweden

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11:00 – 12:30

Parallel Session 1 - B

Hall B

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**FREE PAPERS – ORTHOPEDICS**

Chairpersons: **Michael Conditt**, USA  
**Assaf Dekel**, Israel

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

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

**WEDNESDAY, SEPTEMBER 14, 2011** (continued)

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12:30 – 13:15

Plenary Session

Hall A

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**JOHN ABELE TECHNOLOGY LECTURE**

Chairperson: **Moshe Shoham**, Israel

12:30 FROM IDEA TO COMMERCIALIZATION IN THE ACADEMIC HOSPITAL  
SETTING: CHALLENGES FOR THE FUTURE OF MEDICINE  
**Rafael Beyar**, Israel

13:15 *Lunch*

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14:00 – 15:30

Parallel Session 2 - A

Hall A

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**IIIOS/FUSIMO SESSION II**

Chairperson: **Nicola Di Lorenzo**, Italy

14:00 **JOHN WICKHAM LECTURE**  
INTERGRATING MRgFUS INTO CLINICAL PRACTICE – THE FUTURE IS HERE  
**Dieter Enzmann**, USA

14:30 **Special Lecture**  
TRANS-COSTAL MRgHIFU ABLATION IN LIVER AT UNIVERSITY HOSPITALS  
OF GENEVA: TECHNOLOGY INTEGRATION AND PRE-CLINICAL VALIDATION  
**Rares Salomir**, Switzerland

**IIIOS/FUSIMO SESSION III**

Chairperson: **Jenny Dankelman**, The Netherlands

15:00 NUMERICAL MODELING AND SIMULATION FOR PATIENT-SPECIFIC  
ONCOLOGICAL INTERVENTION PLANNING  
**Stefan Braunewell**, Germany

15:10 MRgHIFU ABLATION IN THE FREE-BREATHING PORCINE LIVER  
**Andrew Holbrook**, USA

15:30 *Coffee Break, Visit the Exhibition, Poster Viewing*



**WEDNESDAY, SEPTEMBER 14, 2011 (continued)**

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14:00 – 15:30


Parallel Session 2 - B

Hall B

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**FREE PAPERS - NEUROSURGERY AND ORTHOPEDICS**

Chairpersons: **Reuben R. Shamir**, Israel  
**Uwe Spetzger**, Germany

- 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 SURFACE SCANNING AND COMPUTERIZED MODEL GENERATION USING  
HAPTIC CONTROL ROBOTIC SYSTEM FOR SURGERICAL ORTHOPEDIC  
PROCEDURES  
**Ifat Gertler**, Yoel Shapiro, Alon Wolf, Israel
- 15:15 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
- 15:30 *Coffee Break, Visit the Exhibition, Poster Viewing* 
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15:45 – 16:30

Parallel Session 3 - A

Hall A

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**IIIOS FUSIMO SESSION III (continued)**

Chairperson: **Jenny Dankelman**, The Netherlands

- 15:45 4D MOTION MODELLING  
**Christine Tanner**, Switzerland
- 16:00 MR GUIDED TRACKING  
**Daniel Outmazguine**, Israel
- 16:15 MRgFUS EXABLATE OVERVIEW WITH ELABORATION ON  
LIVER TREATMENTS (PAST & FUTURE)  
**Yoav Levy**, Israel

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16:00 – 17:30

Parallel Session 3 - B

Hall B

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**FREE PAPERS - NAVIGATION, IMAGE INTERVENTIONS, IMAGING**

Chairpersons: **Kevin Cleary**, USA  
**Meir Liebergall**, Israel

- 16:00 ROBOTIC CONTROL AND NAVIGATION FOR FLEXIBLE ENDOSCOPY  
**Kevin Cleary**, Craig Peters, Emmanuel Wilson, Kristen LeRoy,  
James Goldie, USA
- 16:15 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
- 16:30 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
- 16:45 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
- 17:00 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
- 17:15 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

**IIIOS/FUSIMO FREE PAPER SESSION  
IMAGING AND GUIDED INTERVENTIONS**

Chairpersons: **Andreas Melzer**, UK  
**Len Fass**, UK

- 16:30 ALGORITHM FOR COMPANDING HDR MAMMOGRAPHY IMAGES  
Lonia Kanelovitch, **Hedva Spitzer**, Miri Sklair-Levi, Yakov Itzchak, Israel
- 16:45 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
- 17:00 CT-GUIDED PERCUTANEOUS INTERVENTIONS USING  
A NEEDLE GUIDANCE SYSTEM  
**Joachim Kettenbach**, Gabriel von Allmen, Yanik Bütikofer,  
Andreas Christe, Switzerland
- 17:15 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
- 17:30 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
- 17:45 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 A. Rube, Erwin Immel,  
Rachel J. Toomey, Fabiola Fernandez-Guiterrez, Arno Buecker,  
Andreas Melzer, Germany
- 18:30 Optional walking tour of Tel Aviv

*All fully registered participants and registered accompanying persons are invited to participate.*

**THURSDAY, SEPTEMBER 15, 2011**

08:00 Registration opens

**IIOS Training Event**  
**HUMAN MACHINE INTERFACE AND INTERACTION**  
(TUD sponsored event, all day in Hall A)

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09:00 – 10:30

Plenary Session

Hall A

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**CRYSTAL BALL SESSION 2**

Chairpersons: **Jenny Dankelman**, The Netherlands  
**Brian L. Davies**, UK

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*



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11:00 – 12:30

Parallel Session 5 - A

Hall A

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

Chairpersons: **Daniel Charny**, UK  
**Brynjulf Ystgaard**, Norway

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"  
THE THIN KING - INSIGHTS INTO DESIGN THINKING  
**Daniel Charny**, UK

12:30 *Lunch*

12:30 - 16:00 SMIT Steering Committee Meeting (Kinneret Hall)



**THURSDAY, SEPTEMBER 15, 2011 (continued)**

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11:00 – 12:30

Parallel Session 5 - B

Hall B

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**FREE PAPERS - MINIMALLY INVASIVE SURGERY 1**

Chairpersons: **Alberto Arezzo**, Italy  
**Eiji Kanehira**, Japan

- 11:00 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
- 11:15 DEVELOPMENT OF A NEW MULTI-CHANNEL PORT FOR SINGLE INCISION ENDOSCOPIC SURGERY  
**Eiji Kanehira**, 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
- 12:30 *Lunch*
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13:15 – 14:00

Plenary Session

Hall A

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**GERHARD BUSS LECTURE**

Chairpersons: **Eiji Kanehira**, Japan  
**Marco M. Lirici**, Italy

- 13:15 BIOROBOTIC SURGERY: TOWARDS MEDICAL INNOVATION  
**Paolo Dario**, Arianna Mencias, Edoardo Sinibaldi, Cesare Stefanini, Italy

**THURSDAY, SEPTEMBER 15, 2011 (continued)**

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14:00 – 15:00

Parallel Session 6 - A

Hall A

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**MAN MACHINE INTERFACES IN SURGICAL SIMULATION**

Chairpersons: **Kees A. Grimbergen**, The Netherlands  
**Enric Laporte**, Spain

14:00 PATIENT SPECIFIC DIGITAL MODELS OF ANATOMY FOR CLINICAL USE  
**Leo Joskowicz**, Moti Freiman, Achia Kronman, Refael Vivanti,  
Lior Weizman, Jacob Sosna, Israel

14:30 FORCE FEEDBACK IN SKILLS TRAINING  
**Jenny Dankelman**, Tim Horeman, Dennis van Gerwen, Gabrielle Tuijthof,  
John J. van den Dobbelsteen, The Netherlands

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14:00 – 15:00

Parallel Session 6 - B

Hall B

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**THINGS WE SHOULD ALL KNOW !**

Chairpersons: **Morry Blumenfeld**, Israel  
**Peter J. Fitzgerald**, USA  
**Michal Geva**, Israel

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

14:30 **"INTELLECTUAL PROPERTY"**  
INTELLECTUAL PROPERTY ISSUES CRUCIAL TO MEDICAL  
INNOVATION DEVELOPERS  
**Jeff Rothenberg**, USA

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



**THURSDAY, SEPTEMBER 15, 2011 (continued)**

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15:30 – 17:00

Parallel Session 7 - A

Hall A

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**FREE PAPERS – CARDIOVASCULAR AND MINIMALLY INVASIVE SURGERY 2**

Chairpersons: **Michael Friebe**, Germany  
**Raymond P. Onders**, USA

- 15:30 LAPAROSCOPIC INTRACORPOREAL RECTAL TRANSECTION WITH A CURVED CUTTER: AN ORIGINAL TECHNIQUE IN A SERIES OF 34 PATIENTS  
**Marco M. Lirici**, Alevizos Leonidas, Italy
- 15:45 DIAPHRAGM PACING FOR ACUTE VENTILATOR WEANING IN THE INTENSIVE CARE UNIT: CHANGING THE PARADIGM  
**Raymond P. Onders**, USA
- 16:00 COMPUTER AIDED SIMPLE TRIAGE FOR CORONARY CT ANGIOGRAPHY  
**Roman Goldenberg**, Dov Eilat, Grigory Begelman, Eugene Walach, Eyal Ben-Ishai, Nathan Peled, Israel
- 16:15 LAPAROENDOSCOPIC SINGLE SITE SLEEVE GASTRECTOMY: TECHNIQUE AND EARLY RESULTS  
**Marco M. Lirici**, Leonidas Alevizos, Italy
- 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 7 - B

Hall B

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**FREE PAPERS – ROBOTICS, VIDEO SYSTEMS**

Chairpersons: **Kevin Cleary**, USA  
**Alon Wolf**, USA

- 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

**THURSDAY, SEPTEMBER 15, 2011 (continued)**

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15:30 – 17:00                      Parallel Session 7 - B (continued)                      Hall B

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16:15      SYSTEM ARCHITECTURE AND MAGNETIC ANCHORING FOR  
ROBOTIC NOTES  
**Kevin Cleary**, Haifeng Luo, Emmanuel Wilson, Stephen Oonk, USA

16:30      EXPERIMENTAL ASSESSMENT OF A NOVEL ROBOTICALLY DRIVEN  
ENDOSCOPIC CAPSULE FOR COLONOSCOPY: A COMPARATIVE STUDY  
**Alberto Arezzo**, Arianna Menciassi, Pietro Valdastri, 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

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17:00 – 18:00                      Plenary Session                      Hall A

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**SHIZIM 2011 BIOMED COMPETITION**

Chairperson:    **Yossi Bornstein**, Israel

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 – 19:30      SMIT General Assembly (Hall B)

20:30                      An evening of entertainment with world renowned 'Infotainer'  
and mentalist Lior Manor (Hall B)

*All fully registered participants and registered accompanying persons are  
invited to attend.*

**FRIDAY, SEPTEMBER 16, 2011**

07:30 MITAT Editorial Board Meeting (Galleria Hall)

08:00 Registration opens

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09:00 – 10:30

Plenary Session

Hall A

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**CRYSTAL BALL SESSION 3**

**Medicine in the Battlefield – Panel Discussion**

Chairperson: **Gil Hirschhorn**, Israel

09:00 FUTURE TECHNOLOGIES FOR THE CARE OF BATTLEFIELD INJURIES -  
EVACUATION, REMOTE CARE AND MONITORING  
**Gil Hirschhorn**, Israel

09:20 MEDICAL INFORMATION IN THE BATTLEFIELD  
**Aviram Weiss**, Israel

09:35 ROBOTIC RESUSCITATION AND LIFE-SUPPORT DEVICES  
**George Beck**, USA

09:55 UNMANNED EVACUATION HELICOPTERS  
**Nimrod Golan-Yanay**, Israel

10:10 ROBOTICS IN THE FUTURE OF FIELD MEDICAL CARE  
**Elon Glassberg**, Israel

10:25 Discussion

10:30 *Coffee Break and Poster Viewing*



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11:00 – 12:30

Parallel Session 8 - A

Hall A

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**FREE PAPERS - MINIMALLY INVASIVE SURGERY 3**

Chairpersons: **Ram Elazary**, Israel  
**Joris E.N. Jaspers**, The Netherlands

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 Menciacchi, 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

**FRIDAY, SEPTEMBER 16, 2011 (continued)**

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11:00 – 12:30	Parallel Session 8 - A (continued)	Hall A
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11:30	IT'S TIME FOR INTERNAL RETRACTION DEVICES <b>Yoav Mintz</b> , Ram Elazary, Mahmoud Abu Gazala, Avraham I. Rivkind, Santiago Horgan, Israel
11:45	AN EASY TO USE INSTRUMENT POSITIONER FOR MINIMALLY INVASIVE SURGERY Jesse Bosma, <b>Joris E.N. Jaspers</b> , The Netherlands
12:00	STANDARD LAPAROSCOPY VS LAPARO-ENDOSCOPIC SINGLE-SITE SURGERY; HOW MUCH FORCE IS APPLIED? <b>Tim Horeman</b> , Desislava D. Kurteval, John J. van den Dobbelsesteen, Pietro Valdastri, Frank W. Jansen, Jenny Dankelman, The Netherlands
12:15	MICROLAPAROSCOPIC INSTRUMENTS WITH 5MM END EFFECTORS – THE NEW CONCEPT OF MIS <b>Yoav Mintz</b> , Santiago Horgan, Danny Farin, Shaul Shochat, Adrian Paz, Israel

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11:00 – 12:30	Parallel Session 8 - B	Hall B
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**FREE PAPERS – I.P., DESIGN SYSTEMS, OPERATING ROOMS**

Chairpersons: **Joachim Kettenbach**, Switzerland  
**Hedva Spitzer**, Israel

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| 11:00 | COMPUTER SIMULATION FOR ERGONOMICS AND WORKFLOW IMPROVEMENT IN MULTIMODAL IMAGE GUIDED INTERVENTIONS: A NEW APPROACH<br><b>Fabiola Fernández-Gutiérrez</b> , 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<br>Marcos Lucas-Hernández, Francisco M. Sánchez-Margallo, Juan A. Sánchez-Margallo, <b>Francisco J. Pérez-Duarte</b> , Purificación Castelló, Alfonso Oltra, José Blas Pagador, Spain                                    |
| 11:30 | RADIO FREQUENCY IDENTIFICATION APPLIED TO LAPAROSCOPIC TOWERS: MAINTENANCE, PROJECT AND TESTING<br><b>Nicola Di Lorenzo</b> , Alessandra Lazzaro, Arianna Corona, Luca Iezzi, Luca Armisi, Silvia Colangelo, Giorgio Coscarella, Achille L. Gaspari, Nicola Rosato, Italy   |
| 11:45 | MEDICAL OPERATION EQUIPMENT BASED ON NANOSTRUCTURED PSZ CRYSTALS<br>Makhail A. Borik, Vladimir T. Bublik, <b>Alexey V. Kulebyakin</b> , Elena E. Lomonova, Valentina A. Mizina, Filipp O. Milovich, Vyacheslav V. Osiko, Vitaly A. Panov, Nataliya Yu Tabachkova, Russia    |

**FRIDAY, SEPTEMBER 16, 2011 (continued)**

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11:00 – 12:30                      Parallel Session 8 - B (continued)                      Hall B

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12:00      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

12:15      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

12:30      *Lunch*

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13:15 – 14:30                      Parallel Session 9 - A                      Hall A

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**MINIMALLY INVASIVE SURGERY**

Chair:    **Yoav Mintz**, Israel

13:15      UP-TO-DATE: MIS FOR COLORECTAL SURGERY  
**Alberto Arezzo**, Italy

13:35      SINGLE INCISION TRANSUMBILICAL APPROACH TO ENDOLUMINAL  
RESECTION OF GASTRIC TUMOR  
**Eiji Kanehira**, Japan

14:00      LAPAROSCOPIC REDO FUNDOPLICATION AFTER FAILURE OF TRANSORAL  
FUNDOPLICATION BY ESOPHYX  
**Marco M. Lirici**, Italy

**FRIDAY, SEPTEMBER 16, 2011 (continued)**

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13:15 – 14:30

Parallel Session 9 - B

Hall B

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**FREE PAPERS – POTPOURRI**

Chairpersons: **Joris E.N. Jaspers**, The Netherlands  
**Moshe Shoham**, Israel

- 13:15 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
- 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
- 14:00 REMOTE USER INTERFACES FOR CENTRALIZED CONTROL IN THE INTEGRATED OPERATING ROOM  
**Stefan Bohn**, Tobias Hilbert, Stefan Franke, Oliver Burgert, Germany
- 14:15 WIRELESS TRANSMISSION FROM THE PERITONEAL CAVITY FOR A MINIATURE HD CAMERA DURING MINIMALLY INVASIVE SURGERY  
Noam Livneh, **Mahmoud Abu Gazala**, Yoav Mintz, Israel

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14:30 – 14:45

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