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Kenneth H. Wong

Michael I. Miga

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Contents

Part One

xvii	Conference Committee
xix	Introduction

SESSION 1 IMAGE-GUIDED PROCEDURES I

7625 02	The OCT penlight: in-situ image guidance for microsurgery [7625-01] J. Galeotti, Carnegie Mellon Univ. (United States); A. Sajjad, B. Wang, L. Kagemann, G. Shukla, Univ. of Pittsburgh (United States); M. Siegel, B. Wu, R. Klatzky, Carnegie Mellon Univ. (United States); G. Wollstein, J. S. Schuman, Univ. of Pittsburgh (United States); G. Stetten, Carnegie Mellon Univ. (United States) and Univ. of Pittsburgh (United States)
7625 03	Fusion of intraoperative cone-beam CT and endoscopic video for image-guided procedures [7625-02] M. J. Daly, Ontario Cancer Institute, Princess Margaret Hospital (Canada) and Univ. of Toronto (Canada); H. Chan, Ontario Cancer Institute, Princess Margaret Hospital (Canada); E. Prisman, Univ. of Toronto (Canada); A. Vescan, Univ. of Toronto (United States); S. Nithiananthan, Univ. of Toronto (Canada) and John Hopkins Univ. (United States); J. Qiu, R. Weersink, Ontario Cancer Institute, Princess Margaret Hospital (Canada); J. C. Irish, Univ. of Toronto (Canada) and Princess Margaret Hospital (Canada); J. H. Siewerdsen, Ontario Cancer Institute, Princess Margaret Hospital (United States), Univ. of Toronto (Canada), and John Hopkins Univ. (United States)
7625 04	Integrating the visualization concept of the medical imaging interaction toolkit (MITK) into the XIP-Builder visual programming environment [7625-03] I. Wolf, Mannheim Univ. of Applied Sciences (Germany) and German Cancer Research Ctr. (Germany); M. Nolden, T. Schwarz, H.-P. Meinzer, German Cancer Research Ctr. (Germany)
7625 05	High-accuracy registration of intraoperative CT imaging [7625-04] A. Oentoro, R. E. Ellis, Queen's Univ. (Canada)
7625 06	Intraoperative positioning of mobile C-arms using artificial fluoroscopy [7625-05] P. Dressel, L. Wang, O. Kutter, J. Traub, Technische Univ. München (Germany); S.-M. Heining, Ludwig-Maximilians-Univ. München (Germany); N. Navab, Technische Univ. München (Germany)

SESSION 2 CARDIOVASCULAR

7625 07	3D model-based catheter tracking for motion compensation in EP procedures [7625-06] A. Brost, Friedrich-Alexander-Univ. (Germany); R. Liao, Siemens Corporate Research (United States); J. Hornegger, Friedrich-Alexander-Univ. (Germany); N. Strobel, Siemens AG (Germany)
---------	---

- 7625 08 **Respiratory motion compensated overlay of surface models from cardiac MR on interventional x-ray fluoroscopy for guidance of cardiac resynchronization therapy procedures** [7625-07]
R. Manzke, Philips Research Europe (Germany) and Univ. Hospital of Ulm (Germany); A. Bornstedt, A. Lutz, Univ. Hospital of Ulm (Germany); M. Schenderlein, Univ. of Ulm (Germany); V. Hombach, L. Binner, V. Rasche, Univ. Hospital of Ulm (Germany)
- 7625 09 **Estimating heart shift and morphological changes during minimally invasive cardiac interventions** [7625-08]
C. A. Linte, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada); M. Carias, The Univ. of Western Ontario (Canada); D. S. Cho, D. F. Pace, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada); J. Moore, C. Wedlake, Robarts Research Institute (Canada); D. Bainbridge, B. Kiaii, The Univ. of Western Ontario (Canada) and Canadian Surgical Technologies and Advanced Robotics (Canada); T. M. Peters, Robarts Research Institute (Canada), The Univ. of Western Ontario (Canada), and Canadian Surgical Technologies and Advanced Robotics (Canada)
- 7625 0A **Artifact reduction method for improved visualization of 3D coronary artery reconstructions from rotational angiography acquisitions** [7625-09]
A. M. Neubauer, Philips Research North America (United States) and Univ. of Colorado (United States); E. Hansis, Philips Healthcare (Germany); J. D. Carroll, Univ. of Colorado (United States); M. Grass, Philips Technologie GmbH Forschungslaboratorien (Germany)
- 7625 0B **Semi-automatic segmentation of major aorto-pulmonary collateral arteries (MAPCAs) for image guided procedures** [7625-10]
D. Rivest-Hénault, L. Duong, École de Technologie Supérieure (Canada); C. Lapierre, S. Deschênes, Sainte-Justine Hospital (Canada); M. Cheriet, École de Technologie Supérieure (Canada)
- 7625 0C **A system for visualization and automatic placement of the endoclamp balloon catheter** [7625-11]
H. Furtado, Jožef Stefan Institute (Slovenia) and Medical Univ. Vienna (Austria); T. Stüdeli, Delft Univ. of Technology (Netherlands); M. Sette, Katholieke Univ. Leuven (Belgium); E. Samset, Univ. of Oslo (Norway); B. Gersak, Univ. Medical Ctr. Ljubljana (Slovenia)

SESSION 3 REGISTRATION, VISUALIZATION, MODELING

- 7625 0D **Automatic generation of boundary conditions using Demons non-rigid image registration for use in 3D modality-independent elastography** [7625-85]
T. S. Pheiffer, J. J. Ou, Vanderbilt Univ. (United States); M. I. Miga, Vanderbilt Univ. (United States), Vanderbilt Univ. Medical Ctr. (United States), and Vanderbilt Univ. Institute for Imaging Science (United States)
- 7625 0E **Bladder wall flattening with conformal mapping for MR cystography** [7625-13]
R. Jiang, H. Zhu, W. Zeng, X. Yu, Y. Fan, X. Gu, Z. Liang, Stony Brook Univ. (United States)
- 7625 0F **General approach to error prediction in point registration** [7625-14]
A. Danilchenko, J. M. Fitzpatrick, Vanderbilt Univ. (United States)
- 7625 0G **Correlation of hemodynamic forces and atherosclerotic plaque components** [7625-15]
G. Cantón, B. Chiu, C. Yuan, W. S. Kerwin, Univ. of Washington (United States)

- 7625 OH **Aortic valve and ascending aortic root modeling from 3D and 3D+t CT** [7625-16]
S. Grbić, R. I. Ionasec, D. Zäuner, Y. Zheng, B. Georgescu, D. Comaniciu, Siemens Corporate Research (United States)

SESSION 4 HEAD AND NECK

- 7625 OI **Trajectory planning method for reduced patient risk in image-guided neurosurgery: concept and preliminary results** [7625-17]
R. R. Shamir, L. Joskowicz, The Hebrew Univ. of Jerusalem (Israel); L. Antiga, Mario Negri Institute for Pharmacological Research (Italy); R. I. Foroni, Verona Univ. Hospital (Italy); Y. Shoshan, Hadassah Univ. Hospital (Israel)
- 7625 OJ **Enhancement of subsurface brain shift model accuracy: a preliminary study** [7625-18]
I. Garg, S. Ding, A. M. Coffey, P. Dumpuri, Vanderbilt Univ. (United States); R. C. Thompson, Vanderbilt Univ. (United States) and Vanderbilt Univ. Medical Ctr. (United States); B. M. Dawant, Vanderbilt Univ. (United States); M. I. Miga, Vanderbilt Univ. (United States) and Vanderbilt Univ. Medical Ctr. (United States)
- 7625 OK **Evaluating the feasibility of C-arm CT for brain perfusion imaging: an in vitro study** [7625-19]
A. Ganguly, Stanford Univ. (United States); A. Fieselmann, Friedrich-Alexander-Univ. Erlangen-Nürnberg (Germany) and Siemens AG (Germany); J. Boese, Siemens AG (Germany); C. Rohkohl, Friedrich-Alexander-Univ. Erlangen-Nürnberg (Germany) and Siemens AG (Germany); J. Hornegger, Friedrich-Alexander-Univ. Erlangen-Nürnberg (Germany); R. Fahrig, Stanford Univ. (United States)
- 7625 OL **Demons deformable registration for cone-beam CT guidance: registration of pre- and intra-operative images** [7625-20]
S. Nithiananthan, Univ. of Toronto (Canada) and Johns Hopkins Univ. (United States); K. K. Brock, Univ. of Toronto (Canada) and Ontario Cancer Institute, Princess Margaret Hospital (Canada); M. J. Daly, Ontario Cancer Institute, Princess Margaret Hospital (Canada) and Univ. of Toronto (Canada); H. Chan, Ontario Cancer Institute, Princess Margaret Hospital (Canada); J. C. Irish, Univ. of Toronto (Canada); J. H. Siewerdsen, Univ. of Toronto (Canada) and Johns Hopkins Univ. (United States)
- 7625 OM **Biomechanical based image registration for head and neck radiation treatment** [7625-21]
A. Al-Mayah, J. Moseley, S. Hunter, M. Velec, L. Chau, S. Breen, K. Brock, Princess Margaret Hospital (Canada)
- 7625 ON **Real-time fiber selection using the Wii remote** [7625-22]
J. Klein, M. Scholl, A. Köhn, H. K. Hahn, Fraunhofer MEVIS (Germany)

SESSION 5 ORTHOPEDICS

- 7625 OO **Multi-slice to volume registration of ultrasound data to a statistical atlas of human pelvis** [7625-23]
S. Ghanavati, P. Mousavi, Queen's Univ. (Canada); G. Fichtinger, Queen's Univ. (Canada) and Johns Hopkins Univ. (United States); P. Foughi, Johns Hopkins Univ. (United States); P. Abolmaesumi, Queen's Univ. (Canada) and The Univ. of British Columbia (Canada)

- 7625 OP **An image-guided femoroplasty system: development and initial cadaver studies** [7625-24]
Y. Otake, Johns Hopkins Univ. (United States); M. Armand, Johns Hopkins Univ. (United States) and Johns Hopkins Bayview Medical Ctr. (United States); O. Sadowsky, R. S. Armiger, M. D. Kutzer, Johns Hopkins Univ. (United States); S. C. Mears, Johns Hopkins Bayview Medical Ctr. (United States); P. Kazanzides, R. H. Taylor, Johns Hopkins Univ. (United States)
- 7625 OQ **Active self-calibration of thoracoscopic images for assisted minimally invasive spinal surgery** [7625-25]
F. Girard, Ecole Polytechnique de Montréal (Canada) and Sainte-Justine Hospital Research Ctr. (Canada); F. Benboujja, Ecole Polytechnique de Montréal (Canada); S. Parent, Sainte-Justine Hospital Research Ctr. (Canada); F. Cheriet, Ecole Polytechnique de Montréal (Canada) and Sainte-Justine Hospital Research Ctr. (Canada)
- 7625 OR **Group-wise feature-based registration of CT and ultrasound images of spine** [7625-26]
A. Rasouljan, Technische Univ. München (Germany); P. Mousavi, Queen's Univ. (Canada); M. Hedjazi Moghari, Harvard Univ. (United States); P. Foroughi, Johns Hopkins Univ. (United States); P. Abolmaesumi, The Univ. of British Columbia (Canada)
- 7625 OS **Plan to procedure: combining 3D templating with rapid prototyping to enhance pedicle screw placement** [7625-27]
K. E. Augustine, A. A. Stans, J. M. Morris, P. M. Huddleston, J. M. Matsumoto, D. R. Holmes III, R. A. Robb, Mayo Clinic (United States)

SESSION 6 ULTRASOUND AND GUIDED THERAPY: JOINT SESSION WITH CONFERENCE 7629

- 7625 OT **Validation platform for ultrasound-based monitoring of thermal ablation** [7625-28]
A. M. Pompeu-Robinson, J. Gray, J. Marble, H. Peikari, J. Hall, P. U-Thainual, M. Aboofazeli, A. Lasso, G. Fichtinger, Queen's Univ. (Canada)
- 7625 OU **Calibration of temperature measurements with CT for ablation of liver tissue** [7625-29]
G. D. Pandeya, Siemens Medical Solutions (Germany) and Univ. Medical Ctr. Groningen (Netherlands); M. J. W. Greuter, Univ. Medical Ctr. Groningen (Netherlands); B. Schmidt, T. G. Flohr, Siemens Medical Solutions (Germany); M. Oudkerk, Univ. Medical Ctr. Groningen (Netherlands)

SESSION 7 KEYNOTE AND MOTION CORRECTION

- 7625 OW **Particle filtering for respiratory motion compensation during navigated bronchoscopy** [7625-31]
I. Gergel, T. R. dos Santos, R. Tetzlaff, L. Maier-Hein, H.-P. Meinzer, I. Wegner, German Cancer Research Ctr. (Germany)
- 7625 OX **Structured light 3D tracking system for measuring motions in PET brain imaging** [7625-32]
O. V. Olesen, Technical Univ. of Denmark (Denmark) and Copenhagen Univ. Hospital, Univ. of Copenhagen (Denmark) and Siemens Healthcare, Siemens A/S (Denmark); M. R. Jørgensen, R. R. Paulsen, Technical Univ. of Denmark (Denmark); L. Højgaard, Copenhagen Univ. Hospital, Univ. of Copenhagen (Denmark); B. Roed, Siemens Healthcare, Siemens A/S (Denmark); R. Larsen, Technical Univ. of Denmark (Denmark)

- 7625 0Y **Model-based lasso catheter tracking in monoplane fluoroscopy for 3D breathing motion compensation during EP procedures** [7625-33]
R. Liao, Siemens Corporate Research (United States)
- 7625 0Z **4D MR imaging of respiratory organ motion using an intersection profile method** [7625-34]
Y. Masuda, Chiba Univ. Hospital (Japan) and Chiba Univ. (Japan); H. Haneishi, Chiba Univ. (Japan)

SESSION 8 SEGMENTATION AND REGISTRATION

- 7625 10 **Toward image-based global registration for bronchoscopy guidance** [7625-35]
R. Khare, W. E. Higgins, The Pennsylvania State Univ. (United States)
- 7625 11 **Rapid block matching based nonlinear registration on GPU for image guided radiation therapy** [7625-36]
A. Wang, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada); B. Dishar, The Univ. of Western Ontario (Canada) and London Regional Cancer Program (Canada); G. Carnes, T. M. Peters, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada)
- 7625 12 **Towards real-time 2D/3D registration for organ motion monitoring in image-guided radiation therapy** [7625-37]
C. Gendrin, J. Spoerk, C. Bloch, S. A. Pawiro, C. Weber, M. Figl, Medical Univ. Vienna (Austria); P. Markelj, F. Pernus, Univ. of Ljubljana (Slovenia); D. Georg, H. Bergmann, W. Birkfellner, Medical Univ. Vienna (Austria)
- 7625 13 **User-driven 3D mesh region targeting** [7625-38]
P. Karasev, Georgia Institute of Technology (United States); J. Malcolm, Georgia Institute of Technology (United States) and Brigham and Women's Hospital, Harvard Medical School (United States); M. Niethammer, The Univ. of North Carolina at Chapel Hill (United States); R. Kikinis, Brigham and Women's Hospital, Harvard Medical School (United States); A. Tannenbaum, Georgia Institute of Technology (United States) and Technion-Israel Institute of Technology (Israel)
- 7625 14 **Segmenting TRUS video sequences using local shape statistics** [7625-39]
P. Yan, S. Xu, Philips Research North America (United States); B. Turkbey, National Institutes of Health, National Cancer Institute (United States); J. Kruecker, Philips Research North America (United States)

SESSION 9 PROSTATE

- 7625 15 **Development and validation of a real-time reduced field of view imaging driven by automated needle detection for MRI-guided interventions** [7625-40]
R. A. Görlitz, Brigham and Women's Hospital, Harvard Medical School (United States) and Karlsruhe Institute of Technology (Germany); J. Tokuda, S. W. Hoge, R. Chu, L. P. Panych, C. Tempany, N. Hata, Brigham and Women's Hospital, Harvard Medical School (United States)

- 7625 16 **Assessment of registration accuracy in three-dimensional transrectal ultrasound images of prostates** [7625-41]
V. Karnik, Robarts Research Institute (Canada); A. Fenster, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada); J. Bax, Robarts Research Institute (Canada); D. Cool, Robarts Research Institute (Canada) and The Univ. of Western Ontario (Canada); L. Gardi, I. Gyacskov, C. Romagnoli, A. D. Ward, Robarts Research Institute (Canada)
- 7625 17 **Accuracy validation for MRI-guided robotic prostate biopsy** [7625-42]
H. Xu, A. Lasso, S. Vikal, Queen's Univ. (Canada); P. Guion, National Institutes of Health (United States); A. Krieger, Sentinelle Medical Inc. (Canada); A. Kaushal, National Institutes of Health (United States); L. L. Whitcomb, Johns Hopkins Univ. (United States); G. Fichtinger, Queen's Univ. (Canada) and Johns Hopkins Univ. (United States)
- 7625 18 **Registration of ultrasound to CT angiography of kidneys: a porcine phantom study** [7625-43]
J. Xiang, The Univ. of British Columbia (Canada); S. Gill, Queen's Univ. (Canada); C. Nguan, P. Abolmaesumi, R. N. Rohling, The Univ. of British Columbia (Canada)
- 7625 19 **Localization of brachytherapy seeds in ultrasound by registration to fluoroscopy** [7625-44]
P. Fallavollita, Queen's Univ. (Canada); Z. KarimAghaloo, McGill Univ. (Canada); E. C. Burdette, Acoustic MedSystems, Inc. (United States); D. Y. Song, The John Hopkins Hospital (United States); P. Abolmaesumi, The Univ. of British Columbia (Canada); G. Fichtinger, Queen's Univ. (Canada)
- 7625 1A **Design of a predictive targeting error simulator for MRI-guided prostate biopsy** [7625-45]
S. Avni, S. Vikal, G. Fichtinger, Queen's Univ. (Canada)

SESSION 10 LUNG/ENDOSCOPY

- 7625 1B **Towards hybrid bronchoscope tracking under respiratory motion: evaluation on a dynamic motion phantom** [7625-46]
X. Luó, M. Feuerstein, T. Sugiura, Nagoya Univ. (Japan); T. Kitasaka, Aichi Institute of Technology (Japan) and Nagoya Univ. (Japan); K. Imaizumi, Y. Hasegawa, K. Mori, Nagoya Univ. (Japan)
- 7625 1D **Representing flexible endoscope shapes with hermite splines** [7625-48]
E. C. S. Chen, S. A. Fowler, L. C. Hookey, R. E. Ellis, Queen's Univ. (Canada)
- 7625 1E **Airway shape assessment with visual feed-back in asthma and obstructive diseases** [7625-49]
C. Fetita, M. Ortner, TELECOM SudParis (France); P.-Y. Brillet, TELECOM SudParis (France), Univ. Paris 13 (France), and Avicenne Hospital (France); Y. Ould Hmeidi, Avicenne Hospital (France); F. Prêteux, TELECOM SudParis (France)
- 7625 1F **Anatomical modeling of the bronchial tree** [7625-50]
G. Hentschel, RWTH Aachen Univ. (Germany); T. Klinder, Leibniz Univ. Hannover (Germany) and Philips Research Europe (Germany); T. Blaffert, T. Bülow, R. Wiemker, C. Lorenz, Philips Research Europe (Germany)

SESSION 11 IMAGE-GUIDED PROCEDURES II

- 7625 1G **The MITK image guided therapy toolkit and its application for augmented reality in laparoscopic prostate surgery** [7625-51]
M. Baumhauer, J. Neuhaus, K. Fritzsche, H.-P. Meinzer, German Cancer Research Ctr. (Germany)
- 7625 1H **Model-updated image-guided liver surgery: preliminary results using intra-operative surface characterization** [7625-52]
P. Dumpuri, Vanderbilt Univ. (United States); L. W. Clements, Pathfinder Therapeutics, Inc. (United States); B. M. Dawant, M. I. Miga, Vanderbilt Univ. (United States)
- 7625 1I **A 3D-elastography-guided system for laparoscopic partial nephrectomies** [7625-53]
P. J. Stolka, Johns Hopkins Univ. (United States); M. Keil, G. Sakas, Fraunhofer-Institut für Graphische Datenverarbeitung (Germany); E. McVeigh, Johns Hopkins Univ. (United States); M. E. Allaf, Johns Hopkins Medical Institutions (United States); R. H. Taylor, Johns Hopkins Univ. (United States); E. M. Boctor, Johns Hopkins Medical Institutions (United States)
- 7625 1J **Fast automatic path proposal computation for hepatic needle placement** [7625-54]
C. Schumann, J. Bieberstein, Fraunhofer MEVIS (Germany); C. Trumm, Ludwig-Maximilians-Univ. of Munich (Germany); D. Schmidt, Univ. Hospital Tübingen (Germany); P. Bruners, RWTH Aachen Univ. Hospital (Germany); M. Niethammer, Siemens AG Healthcare Sector (Germany); R. T. Hoffmann, Ludwig-Maximilians-Univ. of Munich (Germany); A. H. Mahnen, RWTH Aachen Univ. Hospital (Germany); P. L. Pereira, SLK Clinic (Germany); H.-O. Peitgen, Fraunhofer MEVIS (Germany)
- 7625 1K **Application of collision detection to assess implant insertion in elbow replacement surgery** [7625-55]
O. R. Tutunea-Fatan, J. H. Bernick, The Univ. of Western Ontario (Canada); E. Lalone, G. J. W. King, J. A. Johnson, St. Joseph's Health Care London (Canada)
- 7625 1L **A novel technique for analysis of accuracy of magnetic tracking systems used in image guided surgery** [7625-56]
D. M. Kwartowitz, M. E. Rettmann, D. R. Holmes III, R. A. Robb, Mayo Clinic (United States)

POSTER SESSION: VISUALIZATION

- 7625 1M **3D visualization of medical imaging using static volumetric display: CSspace** [7625-57]
H. H. Refai, 3DIcon Corp. (United States); B. Salahieh, J. J. Sluss, Jr., Univ. of Oklahoma (United States)
- 7625 1N **Cross modality registration of video and magnetic tracker data for 3D appearance and structure modeling** [7625-58]
D. Sargent, STI Medical Systems (United States); C.-I. Chen, Y.-F. Wang, Univ. of California, Santa Barbara (United States)
- 7625 1O **Reconstruction and visualization of model-based volume representations** [7625-59]
Z. Zheng, K. Mueller, Stony Brook Univ. (United States)

- 7625 1P **Automatic feature detection for 3D surface reconstruction from HDTV endoscopic videos** [7625-60]
A. Groch, M. Baumhauer, H.-P. Meinzer, L. Maier-Hein, German Cancer Research Ctr. (Germany)
- 7625 1Q **Parameter space visualizer: an interactive parameter selection interface for iterative CT reconstruction algorithms** [7625-61]
W. Xu, K. Mueller, Stony Brook Univ. (United States)
- 7625 1R **Real-time simulation of dynamic fluoroscopy of ERCP** [7625-62]
H. Jung, D. Y. Lee, Korea Advanced Institute of Science and Technology (Korea, Republic of)
- 7625 1S **PIRATE: pediatric imaging response assessment and targeting environment** [7625-126]
R. Glenn, St. Jude Children's Research Hospital (United States) and Wofford College (United States); Y. Zhang, M. Krasin, C. Hua, St. Jude Children's Research Hospital (United States)

Part Two

POSTER SESSION: SEGMENTATION

- 7625 1T **3D automatic anatomy recognition based on iterative graph-cut-ASM** [7625-63]
X. Chen, National Institute of Health (United States); J. K. Udupa, The Univ. of Pennsylvania (United States); U. Bağci, The Univ. of Nottingham (United Kingdom); A. Alavi, D. A. Torigian, The Univ. of Pennsylvania School of Medicine (United States)
- 7625 1U **Catheter tracking in asynchronous biplane fluoroscopy images by 3D B-snakes** [7625-64]
M. Schenderlein, S. Stierlin, Univ. of Ulm (Germany); R. Manzke, Philips Research Europe (Germany); V. Rasche, Univ. Hospital of Ulm (Germany); K. Dietmayer, Univ. of Ulm (Germany)

POSTER SESSION: REGISTRATION

- 7625 1V **A new gold-standard dataset for 2D/3D image registration evaluation** [7625-65]
S. Pawiro, Medical Univ. Vienna (Austria); P. Markelj, Univ. of Ljubljana (Slovenia); C. Gendrin, M. Figl, M. Stock, C. Bloch, C. Weber, E. Unger, I. Nöbauer, F. Kainberger, H. Bergmeister, D. Georg, H. Bergmann, W. Birkfellner, Medical Univ. Vienna (Austria)
- 7625 1W **A comment on the rank correlation merit function for 2D/3D registration** [7625-66]
M. Figl, C. Bloch, W. Birkfellner, Medical Univ. Vienna (Austria)
- 7625 1X **The influence of intensity standardization on medical image registration** [7625-67]
U. Bağci, The Univ. of Nottingham (United Kingdom); J. K. Udupa, Univ. of Pennsylvania (United States); L. Bai, The Univ. of Nottingham (United Kingdom)
- 7625 1Y **Non-rigid registration for quantification of intestinal peristalsis on dynamic MRI data** [7625-68]
D. Stein, German Cancer Research Ctr. (Germany); T. Heye, H.-U. Kauczor, Univ. Hospital Heidelberg (Germany); H.-P. Meinzer, German Cancer Research Ctr. (Germany)

POSTER SESSION: IMAGE-GUIDED SYSTEMS

- 7625 1Z **Pre-tuned resonant marker for iMRI using aerosol deposition on polymer catheters** [7625-69]
K. Will, S. Schimpf, A. Brose, F. Fischbach, J. Ricke, B. Schmidt, G. Rose,
Otto-von-Guericke-Univ. of Magdeburg (Germany)
- 7625 20 **Robotically assisted small animal MRI-guided mouse biopsy** [7625-70]
E. Wilson, Georgetown Univ. (United States); C. Choido, ASI Instruments, Inc. (United States);
K. H. Wong, Georgetown Univ. (United States) and Virginia Tech National Capital Region
(United States); S. Fricke, Children's National Medical Ctr. (United States); M. Jung,
Georgetown Univ. Hospital (United States); K. Cleary, Georgetown Univ. (United States)
- 7625 21 **A rapid method for compensating registration error between tracker and endoscope in
flexible neuroendoscopic surgery navigation system** [7625-71]
Z. Jiang, Y. Nimura, T. Kitasaka, Y. Hayashi, E. Ito, M. Fujii, T. Nagatani, Y. Kajita,
T. Wakabayashi, K. Mori, Nagoya Univ. (Japan)
- 7625 22 **A system for advanced real-time visualization and monitoring of MR-guided thermal
ablations** [7625-72]
E. Rothgang, Friedrich-Alexander-Univ. Erlangen-Nuremberg (Germany) and Siemens
Corporate Research, Inc. (United States); W. D. Gilson, Siemens Corporate Research, Inc.
(United States); J. Hornegger, Friedrich-Alexander-Univ. Erlangen-Nuremberg (Germany);
C. H. Lorenz, Siemens Corporate Research, Inc. (United States)
- 7625 23 **Evaluation of nonholonomic needle steering using a robotic needle driver** [7625-73]
E. Wilson, J. Ding, C. Carignan, Georgetown Univ. Medical Ctr. (United States); K. Krishnan,
R. Avila, W. Turner, Kitware, Inc. (United States); D. Stoianovici, Johns Hopkins Univ. (United
States); D. Yankelevitz, Weill-Cornell Medical Ctr. (United States); F. Banovac,
K. Cleary, Georgetown Univ. Medical Ctr. (United States)
- 7625 24 **Absolute vs. relative error characterization of electromagnetic tracking accuracy** [7625-74]
M. Matinfar, G. Narayanasamy, L. Gutierrez, R. Chan, A. Jain, Philips Research North
America (United States)
- 7625 25 **Reducing depth uncertainty in large surgical workspaces, with applications to veterinary
medicine** [7625-75]
M. A. Audette, Kitware, Inc. (United States); A. Kolahi, Claron Technology, Inc. (Canada);
A. Enquobahrie, Kitware, Inc. (United States); C. Gatti, Claron Technology, Inc. (Canada);
K. Cleary, Georgetown Univ. Medical Ctr. (United States)
- 7625 26 **Exploring the clinical validity of predicted TRE in navigation** [7625-77]
M. Bickel, Ö. Güler, F. Kral, F. Schwarm, W. Freysinger, Innsbruck Medical Univ. (United States)
- 7625 27 **Full automatic fiducial marker detection on coil arrays for accurate instrumentation
placement during MRI guided breast interventions** [7625-78]
K. Filippatos, MeVis Medical Solutions AG (Germany); T. Boehler, B. Geisler, Fraunhofer MEVIS
(Germany); H. Zachmann, T. Twellmann, MeVis Medical Solutions AG (Germany)
- 7625 28 **Risk maps for navigation in liver surgery** [7625-79]
C. Hansen, S. Zidowitz, A. Schenk, Fraunhofer MEVIS (Germany); K.-J. Oldhafer, General
Hospital Celle (Germany); H. Lang, University Hospital Mainz (Germany); H.-O. Peitgen,
Fraunhofer MEVIS (Germany)

- 7625 29 **Real time planning, guidance, and validation of surgical acts using 3D segmentations, augmented reality projections and surgical tools video tracking** [7625-80]
A. Osorio, LIMSI-CNRS (France); J.-A. Galan, Hospital General Univ. de Alicante (France); J. Nauroy, P. Donars, LIMSI-CNRS (France)

POSTER SESSION: RADIATION THERAPY

- 7625 2A **Treatment planning and delivery of shell dose distribution for precision irradiation** [7625-81]
M. Matinfar, S. Iyer, Johns Hopkins Univ. (United States); E. Ford, J. Wong, Johns Hopkins Medical Institute (United States); P. Kazantzides, Johns Hopkins Univ. (United States)
- 7625 2B **Correction of prostate misalignment in radiation therapy using US-CT registration** [7625-82]
R. Hoffmann, M. Figl, M. Kaar, A. Bhatia, A. Bhatia, W. Birkfellner, Medical Univ. of Vienna (Austria); J. Hummel, Medical Univ. of Vienna (Austria) and Wilhelminenspital (Austria)
- 7625 2C **Computer-assisted targeted therapy (CATT) for prostate radiotherapy planning by fusion of CT and MRI** [7625-83]
J. Chappelow, Rutgers Univ. (United States); S. Both, Hospital of the Univ. of Pennsylvania (United States); S. Viswanath, Rutgers Univ. (United States); S. Hahn, M. Feldman, M. Rosen, J. Tomaszewski, N. Vapiwala, Hospital of the Univ. of Pennsylvania (United States); P. Patel, A. Madabhushi, Rutgers Univ. (United States)
- 7625 2D **Shape-correlated deformation statistics for respiratory motion prediction in 4D lung** [7625-84]
X. Liu, I. Oguz, S. M. Pizer, The Univ. of North Carolina at Chapel Hill (United States); G. S. Mageras, Memorial Sloan-Kettering Cancer Ctr. (United States)

POSTER SESSION: MODELING

- 7625 2F **Modeling tumor/polyp/lesion structure in 3D for computer-aided diagnosis in colonoscopy** [7625-88]
C.-I. Chen, Univ. of California, Santa Barbara (United States); D. Sargent, STI Medical Systems (United States); Y.-F. Wang, Univ. of California, Santa Barbara (United States)
- 7625 2G **Generation of smooth and accurate surface models for surgical planning and simulation** [7625-89]
T. Moench, M. Neugebauer, Otto-von-Guericke-Univ. Magdeburg (Germany); P. Hahn, Dornheim Medical Images (Germany); B. Preim, Otto-von-Guericke-Univ. Magdeburg (Germany) and Dornheim Medical Images (Germany)
- 7625 2H **Multi-contact model for FEM-based surgical simulation** [7625-90]
H. Y. Choi, W. Ahn, D. Y. Lee, Korea Advanced Institute of Science and Technology (Korea, Republic of)
- 7625 2I **3D TEE registration with MR for cardiac interventional applications** [7625-91]
J. Woo, Cedars-Sinai Medical Ctr. (United States); V. Parthasarathy, D. Sandeep, A. Jain, Philips Research North America (United States)

POSTER SESSION: ENDOSCOPY/BRONCHOSCOPY

- 7625 2J **Realistic colon simulation in CT colonography using mesh skinning** [7625-92]
J. Yao, A. S. Chowdhury, R. M. Summers, National Institutes of Health (United States)
- 7625 2K **Ground truth and CT image model simulation for pathophysiological human airway system** [7625-93]
M. Ortner, C. Fetita, TELECOM SudParis (France); P.-Y. Brillet, Univ. Paris 13 (France);
F. Prêteux, TELECOM SudParis (France); P. Grenier, Univ. Paris 6 (France)
- 7625 2L **Endoscope-magnetic tracker calibration via trust region optimization** [7625-94]
D. Sargent, STI Medical Systems (United States)

POSTER SESSION: ULTRASOUND

- 7625 2M **A GPU based high-definition ultrasound digital scan conversion algorithm** [7625-95]
M. Zhao, CHISON Medical Imaging Co., Ltd. (China), Fudan Univ. (China), and Institute of
Automation (China); S. Mo, CHISON Medical Imaging Co., Ltd. (China)
- 7625 2N **Precisely shaped acoustic ablation of tumors utilizing steerable needle and 3D ultrasound
image guidance** [7625-96]
E. M. Boctor, P. Stolka, H.-J. Kang, C. Clarke, Johns Hopkins Univ. (United States); C. Rucker,
J. Croom, Vanderbilt Univ. (United States); E. C. Burdette, Acoustic Medsystems, Inc. (United
States); R. J. Webster III, Vanderbilt Univ. (United States)
- 7625 2O **A probabilistic framework for ultrasound image decomposition** [7625-97]
I. V. Solovey, O. V. Michailovich, R. S. Xu, Univ. of Waterloo (Canada)
- 7625 2P **Dynamic tracking of tendon elongation in ultrasound imaging** [7625-98]
M. Karimpoor, H. Screen, D. Morrissey, Queen Mary Univ. of London (United Kingdom)

POSTER SESSION: UROLOGICAL

- 7625 2Q **Mechanically assisted 3D prostate ultrasound imaging and biopsy needle-guidance
system** [7625-99]
J. Bax, Robarts Research Institute (Canada) and Univ. of Western Ontario (Canada);
J. Williams, D. Cool, L. Gardi, J. Montreuil, Robarts Research Institute (Canada); V. Karnik,
Robarts Research Institute (Canada) and Univ. of Western Ontario (Canada); S. Sherebrin,
Robarts Research Institute (Canada); C. Romagnoli, A. Fenster, Robarts Research Institute
(Canada) and Univ. of Western Ontario (Canada)
- 7625 2R **Multi-parametric MRI-pathologic correlation of prostate cancer using tracked biopsies**
[7625-100]
S. Xu, Philips Research North America (United States); B. Turkbey, National Institutes of Health
(United States); J. Kruecker, P. Yan, Philips Research North America (United States); J. Locklin,
P. Pinto, P. Choyke, B. Wood, National Institutes of Health (United States)

- 7625 2S **A multi-threaded mosaicking algorithm for fast image composition of fluorescence bladder images** [7625-101]
A. Behrens, M. Bommers, T. Stehle, S. Gross, S. Leonhardt, T. Aach, RWTH Aachen Univ. (Germany)
- 7625 2T **Automatic segmentation of seeds and fluoroscope tracking (FTRAC) fiducial in prostate brachytherapy x-ray images** [7625-102]
N. Kuo, J. Lee, A. Deguet, D. Song, Johns Hopkins Univ. (United States); E. C. Burdette, Acoustic Medsystems, Inc. (United States); J. Prince, Johns Hopkins Univ. (United States)
- 7625 2U **Trans-rectal interventional MRI: initial prostate biopsy experience** [7625-103]
B. M. Greenwood, M. R. Behluli, Invivo Corp. (United States); J. F. Feller, S. T. May, Desert Medical Imaging (United States); R. Princenthal, Rolling Oaks MRI (United States); A. Winkel, Invivo-Germany (Germany); D. B. Kaminsky, Palm Springs Pathology Services (United States)
- 7625 2V **MRI-GUIDED prostate motion tracking by means of multislice-to-volume registration** [7625-104]
H. Tadayyon, S. Vikal, S. Gill, A. Lasso, G. Fichtinger, Queen's Univ. (Canada)

POSTER SESSION: CARDIOVASCULAR

- 7625 2W **Planning of vessel grafts for reconstructive surgery in congenital heart diseases** [7625-105]
U. Rietdorf, German Cancer Research Ctr. (Germany); E. Riesenkampff, Deutsches Herzzentrum Berlin (Germany); T. Schwarz, German Cancer Research Ctr. (Germany); T. Kuehne, Deutsches Herzzentrum Berlin (Germany); H.-P. Meinzer, German Cancer Research Ctr. (Germany); I. Wolf, German Cancer Research Ctr. (Germany) and Institut für Medizinische Informatik (Germany)
- 7625 2X **A robotic assistant system for cardiac interventions under MRI guidance** [7625-106]
M. Li, D. Mazilu, B. J. Wood, K. A. Horvath, A. Kapoor, National Institutes of Health (United States)
- 7625 2Y **Integration of trans-esophageal echocardiography with magnetic tracking technology for cardiac interventions** [7625-107]
J. T. Moore, Robarts Research Institute, The Univ. of Western Ontario (Canada); A. D. Wiles, Robarts Research Institute, The Univ. of Western Ontario (Canada) and Northern Digital Inc. (Canada); C. Wedlake, Robarts Research Institute, The Univ. of Western Ontario (Canada); D. Bainbridge, London Health Sciences (Canada) and Lawson Health Research Institute (Canada); B. Kiaii, London Health Sciences (Canada), Lawson Health Research Institute (Canada), and Canadian Surgical Technologies and Advanced Robotics (Canada); A. L. Trejos, R. Patel, Canadian Surgical Technologies and Advanced Robotics (Canada) and The Univ. of Western Ontario (Canada); T. M. Peters, Robarts Research Institute, The Univ. of Western Ontario (Canada) and Canadian Surgical Technologies and Advanced Robotics (Canada)
- 7625 2Z **2D/3D registration using only single-view fluoroscopy to guide cardiac ablation procedures: a feasibility study** [7625-108]
P. Fallavollita, Queen's Univ. (Canada)
- 7625 30 **Segmentation of carotid arteries by graph-cuts using centerline models** [7625-109]
M. A. Gülsün, H. Tek, Siemens Corporate Research (United States)

POSTER SESSION: HEAD AND NECK

- 7625 31 **An evaluative tool for preoperative planning of brain tumor resection** [7625-110]
A. M. Coffey, I. Garg, M. I. Miga, Vanderbilt Univ. (United States); R. C. Thompson, Vanderbilt Univ. Medical Ctr. (United States)
- 7625 32 **Computer-aided planning for endovascular treatment of intracranial aneurysms (CAPETA)** [7625-111]
A. Mohamed, Siemens Corporate Research, Inc. (United States) and Baylor College of Medicine (United States); E. Sgouritsa, Univ. of Houston (United States); H. Morsi, Baylor College of Medicine (United States) and St. Luke's Episcopal Hospital (United States); H. Shaltoni, St. Luke's Episcopal Hospital (United States); M. E. Mawad, Baylor College of Medicine (United States) and St. Luke's Episcopal Hospital (United States); I. A. Kakadiaris, Univ. of Houston (United States)
- 7625 34 **Evaluating a visualization of uncertainty in probabilistic tractography** [7625-113]
A. von Kapri, T. Rick, RWTH Aachen Univ. (Germany) and JARA-SIM, Jülich-Aachen Research Alliance (Germany); S. Caspers, Institute of Neuroscience and Medicine (Germany) and JARA-BRAIN, Jülich-Aachen Research Alliance (Germany); S. B. Eickhoff, Institute of Neuroscience and Medicine (Germany), JARA-BRAIN, Jülich-Aachen Research Alliance (Germany), and RWTH Aachen Univ. (Germany); K. Zilles, Institute of Neuroscience and Medicine (Germany), JARA-BRAIN, Jülich-Aachen Research Alliance (Germany), and Heinrich-Heine-Univ. (Germany); T. Kuhlen, RWTH Aachen Univ. (Germany) and JARA-SIM, Jülich-Aachen Research Alliance (Germany)
- 7625 35 **Graphical user interfaces for simulation of brain deformation in image-guided neurosurgery (Cum Laude Poster Award)** [7625-114]
X. Fan, S. Ji, P. Valdes, Dartmouth College (United States); D. W. Roberts, A. Hartov, Dartmouth College (United States) and Dartmouth Hitchcock Medical Ctr. (United States); K. D. Paulsen, Dartmouth College (United States), Dartmouth Medical School (United States), and Dartmouth Hitchcock Medical Ctr. (United States)
- 7625 36 **An integrated model-based neurosurgical guidance system** [7625-115]
S. Ji, X. Fan, K. Fontaine, Dartmouth College (United States); A. Hartov, Dartmouth College (United States) and Norris Cotton Cancer Ctr. (United States); D. Roberts, Norris Cotton Cancer Ctr. (United States) and Dartmouth-Hitchcock Medical Ctr. (United States); K. Paulsen, Dartmouth College (United States) and Norris Cotton Cancer Ctr. (United States)
- 7625 37 **Augmented reality guidance system for peripheral nerve blocks** [7625-116]
C. Wedlake, J. Moore, Robarts Research Institute (Canada); M. Rachinsky, D. Bainbridge, The Univ. of Western Ontario (Canada); A. D. Wiles, Robarts Research Institute (Canada), Northern Digital Inc. (Canada), and The Univ. of Western Ontario (Canada); T. M. Peters, Robarts Research Institute (Canada), The Univ. of Western Ontario (Canada), and Canadian Surgical Technologies and Advanced Robotics (Canada)
- 7625 38 **Ultrasound guided spine needle insertion** [7625-117]
E. C. S. Chen, P. Mousavi, S. Gill, G. Fichtinger, Queen's Univ. (Canada); P. Abolmaesumi, Queen's Univ. (Canada) and The Univ. of British Columbia (Canada)

POSTER SESSION: ORTHOPEDICS

- 7625 39 **Statistical atlas based extrapolation of CT data** [7625-118]
G. Chintalapani, R. Murphy, Johns Hopkins Univ. (United States); R. S. Armiger, Johns Hopkins Univ. (United States); J. Lepisto, Pihlajalinna Hospital (Finland); Y. Otake, Johns Hopkins Univ. (United States); N. Sugano, Osaka Univ. Graduate School of Medicine (Japan); R. H. Taylor, M. Armand, Johns Hopkins Univ. (United States)
- 7625 3B **A new method of morphological comparison for bony reconstructive surgery: maxillary reconstruction using scapular tip bone** [7625-120]
H. Chan, Ontario Cancer Institute, Princess Margaret Hospital (Canada); R. W. Gilbert, Univ. of Toronto (Canada); N. A. Pagedar, The Univ. of Iowa (United States); M. J. Daly, Ontario Cancer Institute, Princess Margaret Hospital (Canada); J. C. Irish, Univ. of Toronto (Canada); J. H. Siewerdsen, Johns Hopkins Univ. (United States)
- 7625 3C **Measurement of complex joint trajectories using slice-to-volume 2D/3D registration and cine MR** [7625-121]
C. Bloch, M. Figl, C. Gendrin, C. Weber, E. Unger, S. Aldrian, W. Birkfellner, Medical Univ. Vienna (Austria)
- 7625 3D **Computer assisted 3D pre-operative planning tool for femur fracture orthopedic surgery** [7625-122]
P. Gamage, S. Q. Xie, P. Delmas, The Univ. of Auckland (New Zealand); W. L. Xu, Massey Univ. (New Zealand)
- 7625 3E **Splint deformation measurement: a contribution to quality control in computer assisted surgery** [7625-123]
C. Weber, M. Figl, K. Schicho, Medical Univ. Vienna (Austria)
- 7625 3F **A three-dimensional finite element analysis of the osseointegration progression in the human mandible** [7625-124]
E. Esmail, Helwan Univ. (Egypt); N. Hassan, Y. Kadah, Cairo Univ. (Egypt)
- 7625 3G **Visualization of 3D elbow kinematics using reconstructed bony surfaces** [7625-125]
E. A. Lalone, St. Joseph's Health Care London (Canada) and The Univ. of Western Ontario (Canada); C. P. McDonald, St. Joseph's Health Care London (Canada); L. M. Ferreira, St. Joseph's Health Care London (Canada) and The Univ. of Western Ontario (Canada); T. M. Peters, The Univ. of Western Ontario (Canada); G. J. W. King, J. A. Johnson, St. Joseph's Health Care London (Canada) and The Univ. of Western Ontario (Canada)

Author Index

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Session Chairs

- 1 Image-guided Procedures I
David R. Holmes III, Mayo Clinic (United States)
Robert L. Galloway, Jr., Vanderbilt University (United States)
- 2 Cardiovascular
Frank Sauer, Siemens Corporate Research (United States)
Purang Abolmaesumi, Queen's University (Canada)

- 3 Registration, Visualization, Modeling
Wolfgang Birkfellner, Medizinische Universität Wien (Austria)
Robert J. Webster III, Vanderbilt University (United States)
- 4 Head and Neck
David R. Haynor, University of Washington (United States)
Guy Shechter, Philips Research (United States)
- 5 Orthopedics
Ziv R. Yaniv, Georgetown University (United States)
Terry M. Peters, Robarts Research Institute (Canada)
- 6 Ultrasound and Guided Therapy: Joint Session with Conference 7629
Kenneth H. Wong, Virginia Tech-National Capital Region (United States)
Jan D'hooge, Katholieke Universiteit Leuven (Belgium)
- 7 Keynote and Motion Correction
Michael I. Miga, Vanderbilt University (United States)
Kenneth H. Wong, Virginia Tech-National Capital Region (United States)
- 8 Segmentation and Registration
Jay B. West, Accuray, Inc. (United States)
Pierre Jannin, Université de Rennes 1 (France)
- 9 Prostate
Alexandre X. Falcao, Universidade Estadual de Campinas (Brazil)
Gabor Fichtinger, Queen's University (Canada)
- 10 Lung/Endoscopy
William E. Higgins, The Pennsylvania State University (United States)
Jayaram K. Udupa, The University of Pennsylvania Health System (United States)
- 11 Image-guided Procedures II
Ivo Wolf, Deutsches Krebsforschungszentrum (Germany)
Steven L. Hartmann, Medtronic Navigation (United States)

Introduction

Welcome to the 2010 edition of the SPIE Visualization, Image-Guided Procedures, and Modeling conference proceedings. The conference continues to be a premier venue for our field, where one can see the latest advances, as well as catch up with long-time friends. The conference is also an ideal venue for students to gain an understanding of the research community and interact with both peers and mentors. This year we received approximately 150 abstract submissions, resulting in 55 oral presentations and 70 posters. The number of submissions has remained strong in the face of economic downturns and new challenges for research funding, which is very encouraging for our field.

As technical challenges in our field are understood and overcome, researchers turn to new and exciting areas of investigation. Two of these areas, motion compensation and quantitative imaging, were addressed in our keynote lecture by Professor Paul Kinahan from The University of Washington Medical Center. Professor Kinahan reminded us that although we have made great strides in the treatment of some diseases, other diseases such as lung cancer have seen much less progress. The challenge to our community is to use the power of our newest innovations to tackle these difficult clinical problems.

We were saddened this year by the passing of Dr. Robert Susil, a pioneering researcher in the field of MRI-guided prostate interventions and a close friend to many of us. His optimism and dedication will be greatly missed, but the continuing progress in this field is a fitting tribute to his life and work.

This year we welcomed two new members to the committee: Gabor Fichtinger from Queen's University and Bob Webster from Vanderbilt University. David Holmes from The Mayo Clinic will be stepping up as a conference chair for 2011; Mike Miga is completing his "tour" as conference chair this year. We are grateful to all our committee members for their help in reviewing abstracts, evaluating student papers, and judging posters.

It would not be possible to run this conference without the first-rate support of the SPIE staff members, including the office staff, management, and the editors. They make our job easier, ensure that deadlines are met, and allow us to focus on the technical content. Finally, we would like to thank all the attendees who come to give talks, present posters, and participate in the meeting. We look forward to seeing you next year in Orlando and for many years to come as we continue to collectively develop this technology toward the ultimate goal of improved patient care.

Kenneth H. Wong
Michael I. Miga