

★医用画像研究会 (MI)

専門委員長 清水昭伸 副委員長 増谷佳孝・森 健策

幹事 河田佳樹・木村裕一 幹事補佐 北坂孝幸・本谷秀堅

日時 6月24日(火) 9:00~17:15

会場 九州大学病院キャンパス基礎B棟2階大講義室(福岡市東区馬出3-1-1. 福岡空港から地下鉄空港線:中洲川端駅で貝塚方面へ乗り換え, 地下鉄箱崎線:馬出九大病院前駅下車. JR博多駅から地下鉄空港線:中洲川端駅で貝塚方面へ乗り換え地下鉄箱崎線:馬出九大病院前駅下車. <http://www.kyushu-u.ac.jp/access/> <http://www.kyushu-u.ac.jp/access/map/hospital/hospital.html> No.4の建物 TEL [092] 642-6719 有村秀孝)

議題

Modeling and Visualization

1. 3D Model Generation of Brain Block Using Internal Structure Contours for 3D Japanese Brain Atlas Construction
○Shou Sasaki・Kenichi Morooka・Kaoru Kobayashi・Tokuo Tsuji (Kyushu Univ.)・Yasushi Miyagi (Kaizuka Hospital)・Takaichi Fukuda (Kumamoto Univ.)・Kazuhiro Samura (Fukuoka Univ.)・Ryo Kurazume (Kyushu Univ.)
2. Preliminary Study on Interactive and Collaborative 3D Virtual Medical Image Visualization System
○Shuaizhen Zhu (Ritsumeikan Univ.)・Zhuofu Deng・Yu Gao・Renjie Yao・Zhiliang Zhu (Northeastern Univ.)・Tomoko Tateyama・Yen-Wei Chen (Ritsumeikan Univ.)
3. Introduction to medical imaging and its application in Asan Medical Center
○Namkug Kim・Joon Beom Seo・Min Ho Lee・Taekjin Jang・JangPyo Bae・Yongjun Chang・Sang Min Lee・Kyesam Jung・Jun Ho Jung (Asan Medical Ctr.)

Image Segmentation

4. Improved Interactive Medical Image Segmentation using Graph Cut and SLIC Superpixels
○Titinunt Kitrungrotsakul・Chunhua Dong・Xian-Hua Han・Yen-Wei Chen (Ritsumeikan Univ.)
5. Multi-organ segmentation with a relaxed conditional hierarchical statistical shape model
○Reito Oshima・Kohei Yamashita・Atsushi Saito・Akinobu Shimizu (Tokyo Univ. of Agriculture and Tech.)・Shigeru Nawano (Int'l Univ. of Health and Welfare)
6. Multi Organ Bounding Box Annotation based on Adaptive Selection of Skeleton References
○Chunhua Dong (Ritsumeikan Univ.)・Amir H. Foruzan (Shahed Univ.)・Xian-hua Han・Tomoko Tateyama・Yen-wei Chen (Ritsumeikan Univ.)

Image-Guided Surgery

7. Fully Automated Image Assessment Method of Total Hip Arthroplasty Implantation in MDCT images
Syoji Kobashi (Univ. Hyogo)
8. Image-Guided Biopsy Robot Project in Korea: Hardware Design Concept
○Jaesoon Choi・Youngjin Moon・Joon Beom Seo (Asan Medical Center)
9. Image Guided Robot Research Topics in Korea National Cancer Center—Image Guided Robot system research—
○Kwang Gi Kim・Chang Nho Cho・Dae Kyung Sohn (NCC)
10. 3D liver model fabrication by 3D printing technique and its application to liver surgery assistance
○Yoshihiko Nakamura・Yuichiro Hayashi・Tomoaki Hirose・Tsuyoshi Igami・Masato Nagino・Kensaku Mori (Nagoya Univ.)

午後 Image-Guided Radiotherapy (13:30~)

11. Range-image guided system for monitoring intra-fractional setup errors of head and neck cancer patients by using an infrared-ray-based time-of-flight camera
○Mazen Soufi・Hidetaka Arimura・Katsumasa Nakamura (Kyushu Univ.)・Taka-aki Hirose・Yoshiyuki Umedu (Kyushu Univ. Hospital/Kyushu Univ.)・Yoshiyuki Shioyama (Saga Heavy Ion Medical Accelerator)・Fukai Toyofuku (Kyushu Univ.)
12. Lung Tumor Motion Tracking in 4D CT Images for Radiation Treatment Planning
Julip Jung・Hyun Hee Jo・○Helen Hong (Seoul Women's Univ.)・Young-Nam Kang (Seoul Saint Mary's Hospital)・Soo-Yeol Lee (Electronic & Telecommunication Research Inst.)

Special Lecture 1

13. [特別講演] Introduction of Development of Korean Biopsy Robot
○Joon Beom Seo・Namkug Kim・Jaesoon Choi (AMC, Univ. of Ulsan)

Special Lecture 2 (15:10~16:00)

14. [特別講演] Prospects of Computational Medical Image Analysis in High Precision Radiation Therapy

Hidetaka Arimura (Kyushu Univ.)

©24日 16:15~17:15, A special tour of Kyushu University Museum of Human Pathology

◆日本生体医工学会；生体医用画像研究会共催

☆MI研究会今後の予定〔 〕内発表申込締切日

9月5日(金) 統計数理研〔未定〕テーマ：TBA

【発表申込先】 下記研究会発表申込システムからお申込み下さい。

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

【問合せ先】

医用画像研究会世話人

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上記で連絡がつかないとき

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