

5th Conference on Medical and Biological Imaging

生体医用画像研究会 第5回若手発表会

Date : Sat, Mar 10, 2018 10:10 - 16:10

日時 : 2018年3月10日 10:10~16:10

Place : Sigma Hall, Osaka University Toyonaka Campus

場所 : 大阪大学基礎工学国際棟 (豊中キャンパス)

Opening				
	10:10			
Session 1 Chair: Ryo Haraguchi (University of Hyogo)			一般講演1 座長: 原口 亮 (兵庫県立大)	
1	10:15 - 10:45	Automated segmentation of renal arterial branches from abdominal contrast enhanced CT images using Convolutional Neural Network and knowledge of vessel anatomy: A comparison of network structures	Yuki Suzuki (NAIST, Osaka University), Mariko Ono, Yuta Hiasa (NAIST), Masatoshi Hori (Osaka University), Yoshito Otake (NAIST), Noriyuki Tomiyama (Osaka University), Yoshinobu Sato (NAIST)	畳み込みニューラルネットワークと解剖学的知識を用いた腹部造影CT画像からの腎動脈枝の自動抽出ネットワーク構造の比較
2	10:45 - 11:15	Synthetic Biosignal Generation Based on Generative Adversarial Networks	Shota Harada, Hideaki Hayashi, Seiichi Uchida (Kyushu University)	Generative Adversarial Networksに基づく人工生体信号生成
Invited Lecture Chair: Yoshinobu Sato (NAIST)			招待講演 座長: 佐藤 嘉伸 (奈良先端大)	
3	11:15 - 12:15	[Invited Lecture] The role of machine learning/architectural intelligence in computer-aided diagnosis systems	Mitsutaka Nemoto (Kindai University)	{招待講演} 画像診断支援システムにおける機械学習・人工知能の役割
	12:15 - 13:15	Lunch (75 minutes)		
Session 2 Chair: Takashi Nagaoka (Kindai University)			一般講演2 座長: 永岡 隆 (近畿大)	
4	13:30 - 14:00	Kinematic analysis of forearm rotation including subluxation by 2D-3D registration using biplane fluoroscopy.	Yusuke Tenma, Yuta Hiasa, Yoshito Otake (NAIST), Shingo Abe, Tsuyoshi Murase (Osaka University), Yoshinobu Sato (NAIST)	2方向X線透視動画画像を用いた2D-3Dレジストレーションによる亜脱臼動作を含む前腕回旋動態解析
5	14:00 - 14:30	Improvement of athlete performance and injury prevention research using IoT	Hiroshi Takahata, Issei Ogasawara, Takuya Magome, Akira Uchiyama, Shoji Konda, Teruki Yokoyama, Yuri Kitamura, Ken Nakata (Osaka University)	IoTを活用したアスリートパフォーマンス向上と障害予防研究
6	14:30 - 15:00	Reconstruction of 3-Dimensional Rotator Cuff Tear Shape using Magnetic Resonance Images	Kazuki Ishiro, Kento Morita, Manabu Nii (University of Hyogo), Tomoyuki Muto, Hiroshi Tanaka, Hiroaki Inui (Nobuhara Hospital), Syoji Kobashi (University of Hyogo), Katsuya Nobuhara (Nobuhara Hospital)	MR画像を用いた肩腱板断裂3次元形状の再構築
	15:00 - 15:15	Break (10 minutes)		
Session 3 Char: Naozo Sugimoto (Kyoto University)			一般講演2 座長: 杉本 直三 (京都大)	
7	15:10 - 15:40	Estimation of muscle fiber direction from 3D ultrasound image with mechanical linear guide system and reconstruction of 4D muscle motion	Norio Fukuda, Tokumi Sano, Yoshito Otake (NAIST), Shingo Abe, Shoji Konda (Osaka University), Yoshinobu Sato (NAIST)	機械式リニアガイドによる3次元超音波画像を用いた筋繊維方向推定および筋肉の4次元動態復元
8	15:40 - 16:10	A New Image-based Method for Vortex Structure Analysis of the Developing Human Fetal Heart	Ryo Haraguchi (University of Hyogo), Saori Nishitani, Hirohiko Imai, Tetsuya Takakuwa (Kyoto University)	ヒト胎児心臓心尖部における渦構造の画像解析手法の提案

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