Seminar on Radiological Imaging Informatics and Intelligent Biomedical Systems Engineering

Date and time

- 13:00 – 14:30, September 5th, 2024 (Japan Standard Time)

Venue(hybrid)

- Onsite
  Department of Radiological Imaging and Informatics,
  Tohoku University Graduate School of Medicine,
  4th Flr., School of Medicine Building 1 (B01),
  2-1 Seiryo-machi, Aoba-ku, Sendai, Miyagi, 980-8575, Japan

- Online
  - Zoom (URL will be sent after registration)
  - Registration Form: https://forms.gle/jC7c9HELpz7Ais568
  - Deadline: September 4th

Program

- 13:00 – 13:50

  "**Learning Entropy for Sub-Nyquist and Sub-Noise Anomaly Detection with Physics Informed Neural Architectures**"
  Dr. Ivo BUKOVSKY (Associate Professor, University of South Bohemia in Ceske Budejovice, Czech Republic) and **Mr. Vladimír MALY** (Engineer, VM Engineering; Czech Technical University in Prague, Czech Republic)

- 13:50 – 14:00

  "**Biometric Identification Technique Using Video Plethysmography Captured in the Palm Area**"
  Mr. Shuma MATSUZAKI (Master student, Tohoku University)

- 14:00 – 14:10

  "**Autoencoder-Based Anomaly Detection in Mammography Using Normal Cases**"
  Mr. Issei YOSHIZUMI (Master student, Tohoku University)

- 14:10 – 14:20

"**A Study of Explainable Deep learning Model for H. Pylori Diagnosis Using Gastric X-ray Images**"
Mr. Riku NUMANO (Master student, Tohoku University)

● 14:20 – 14:30

   General discussion and concluding remarks

Co-sponsors:

  ● **Human Welfare Engineering Division, Smart Aging Research Center, Tohoku University**
  ● **AI Applied Medicine Division, ART, Tohoku University Graduate School of Medicine**

Department of Radiological Imaging and Informatics, Tohoku University Graduate School of Medicine

 E-mail: secretary@rii.med.tohoku.ac.jp

医用画像情報学と知能システム医工学に関するセミナー

日時

● 2024 年 9 月 5 日(木)　13:00～14:30

会場-ハイブリッド

● Onsite
オンサイト：医学部 1 号館 4 階　医用画像工学分野

　　　　　〒 980-8575 宮城県仙台市青葉区星陵町 2-1

● オンライン

  ➢ Zoom（参加 URL は、登録フォーム回答完了後、お知らせします）

  ➢ 申込みフォーム https://forms.gle/jC7c9HELpz7Ais568

  ➢ 締め切り 2024 年 9 月 4 日(水)

プログレス

- 13:00 – 13:50

  "**Learning Entropy for Sub-Nyquist and Sub-Noise Anomaly Detection with Physics Informed Neural Architectures**"
  Dr. Ivo BUKOVSKY (Associate Professor, University of South Bohemia in Ceske Budejovice, Czech Republic) and **Mr. Vladimír MALY** (Engineer, VM Engineering; Czech Technical University in Prague, Czech Republic)

- 13:50 – 14:00

  "**Biometric Identification Technique Using Video Plethysmography Captured in the Palm Area**"
   松﨑　宗真 (修士 2 年, 東北大学)

- 14:00 – 14:10

  "**Autoencoder-Based Anomaly Detection in Mammography Using Normal Cases**"
  吉住　壱成 (修士 2 年, 東北大学)

- 14:10 – 14:20

  "**A Study of Explainable Deep learning Model for H. Pylori Diagnosis Using Gastric X-ray Images**"
  沼野　陸 (修士 2 年, 東北大学)

- 14:20 – 14:30

  General discussion and concluding remarks

共催:

東北大学スマート・エイジング学際重点研究センター人間福祉工学研究部門

東北大学大学院医学系研究科附属創生応用医学研究センターAI 応用医学部門

問合せ：医学系研究科　医用画像工学分野

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