# راضیه راستگو

دکتری مهندسی کامپیوتر-هوش مصنوعی

استادیار دانشکده برق و کامپیوتر، دانشگاه سمنان

## تحصیلات

- ❖ **دکتری، مهندسی کامپیوتر، هوش مصنوعی و رباتیک**

عنوان پایان نامه: بهبود دقت کلمات زبان اشاره با استفاده از یادگیری عمیق

اساتید راهنما: دکتر کوروش کیانی، پروفسور سرخیو اسکالرا

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## همکاری های تحقیقاتی

- شرکت دانش بنیان هیس، ارک علم و فناوری، دانشگاه سمنان
- آزمایشگاه تحقیقاتی HUPBA دانشگاه بارسلونا، اسپانیا
- پژوهشکده دانش های بنیادین
- آزمایشگاه VLM دانشگاه تگزاس، آمریکا

- ICCV 2021,
- ICCV 2019,
- Expert Systems With Applications Journal,
- Artificial Intelligence Review,
- IET Computer Vision Journal,
- Neural Computing and Applications,
- IET Intelligent Transport Systems,
- IGI-Global Journal,
- Journal of Circuits, Systems, and Computers (JCSC),
- Pattern Analysis and Applications, and
- Advancement in Computer vision and image processing (Book), IGI global.
- Pattern Recognition,
- Engineering Applications of Artificial Intelligence,
- IEEE Transactions on Circuits and Systems for Video Technology,
- IEEE Transactions on Sustainable Energy,
- IEEE Power Engineering Letters,
- Neurocomputing,
- Knowledge-Based Systems,
- Computers in Biology and Medicine,
- Biomedical Signal Processing and Control,
- Displays,
- Modeling in Engineering.

## انتشارات

**کتاب: ها**

- کوروش کیانی، راضیه راستگو، شیما فولاد، لذت گام به گام یادگیری عمیق با مثال عددی (کتاب اول: ماشین بولتزمان محدود شده و شبکه باور عمیق)، انتشارات دانشگاه سمنان، ۱۴۰۰.

- کوروش کیانی، راضیه راستگو، لذت گام به گام یادگیری عمیق با مثال عددی (کتاب دوم: شبکه عصبی کانولوشنی)، انتشارات دانشگاه سمنان، ۱۴۰۰.

- کوروش کیانی، راضیه راستگو، لذت گام به گام یادگیری عمیق با مثال عددی (کتاب سوم: شبکه های عصبی بازگشتی)، انتشارات دانشگاه سمنان، ۱۴۰۲.

مقاله ها:

- **R. Rastgoo**, K. Kiani, S. Escalera, M. Sabokrou, Multi-modal zero-shot dynamic hand gesture recognition, Expert Systems with Applications, 123349, 2024.
- F Bagherzadeh, **R Rastgoo**, Deepfake image detection using a deep hybrid convolutional neural network, Journal of Modeling in Engineering 21 (75), 19-28, 2023.
- **R Rastgoo**, K Kiani, S Escalera, V Athitsos, M Sabokrou, A survey on recent advances in Sign Language Production, Expert Systems with Applications, 122846, 2023.
- Z Mohammadi, A Akhavanpour, **R Rastgoo**, M Sabokrou, Diverse hand gesture recognition dataset, Multimedia Tools and Applications, 1-23, 2023.
- S Zarbafi, K Kiani, **R Rastgoo**, Spoken Persian digits recognition using deep learning, Journal of Modeling in Engineering 21 (74), 163-172, 2023.
- M Rezaei, **R Rastgoo**, V Athitsos, TriHorn-Net: A model for accurate depth-based 3D hand pose estimation, Expert Systems with Applications 223, 119922, 2023.
- N Esfandiari, K Kiani, **R Rastgoo**, A Conditional Generative Chatbot using Transformer Model, arXiv:2306.02074
- F Alinezhad, K Kiani, **R Rastgoo**, A Deep Learning-based Model for Gender Recognition in Mobile Devices, Journal of AI and Data Mining 11, 229-236, 2023.
- H Zaferani, K Kiani, **R Rastgoo**, Real-time face verification on mobile devices using margin distillation, Multimedia Tools and Applications, 1-19, 2023.
- **R Rastgoo**, K Kiani, S Escalera, ZS-GR: zero-shot gesture recognition from RGB-D videos, Multimedia Tools and Applications, 1-16, 2023.
- **R Rastgoo**, K Kiani, S Escalera, A deep co-attentive hand-based video question answering framework using multi-view skeleton, Multimedia Tools and Applications 82 (1), 1401-1429, 2023.
- S Shekarizadeh, **R Rastgoo**, S Al-Kuwari, M Sabokrou, Deep-Disaster: Unsupervised Disaster Detection and Localization Using Visual Data, 2022 26th International Conference on Pattern Recognition (ICPR), 2814-2821.
- A Ghasemi Yegane, K Kiani, **R Rastgoo**, Copy-Move Forgery Detection Using Fast Retina Keypoint (FREAK) Descriptor, Modeling and Simulation in Electrical and Electronics Engineering 2 (2), 1-7, 2022.
- M Ebadi, K Kiani, **R Rastgoo**, Improvement of Mesh Simplification Using Normal Vector Diversity Modeling and Simulation in Electrical and Electronics Engineering 2 (2), 17-22, 2022.
- **R Rastgoo**, K Kiani, S Escalera, A Non-Anatomical Graph Structure for isolated hand gesture separation in continuous gesture sequences, arXiv:2207.07619, 2022.
- **R Rastgoo**, K Kiani, S Escalera, Word separation in continuous sign language using isolated signs and post-processing, arXiv:2204.00923, 2022.
- **R Rastgoo**, K Kiani, S Escalera, Real-time isolated hand sign language recognition using deep networks and SVD, Journal of Ambient Intelligence and Humanized Computing 13 (1), 591-611
- **R. Rastgoo**, K. Kiani, S. Escalera, M. Sabokrou, Sign Language Production: A Review, 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), **2021**.

- **R. Rastgoo**, K. Kiani, S. Escalera, Real-time Isolated Hand Sign Language Recognition Using Deep Networks and SVD, Journal of Ambient Intelligence and Humanized Computing, **2021**. https://link.springer.com/article/10.1007/s12652-021-02920-8

- R. Hematpour, K. Kiani, **R. Rastgoo**, Automatic Grayscale Image Colorization Using Deep Hybrid System, Journal of AI and Data Mining, **2021**.

- K. Kiani, S. Rezaeirad, **R. Rastgoo**, HMM-based face recognition using SVD and half of the face image, MSEEE, **2021**.

- **R. Rastgoo**, K. Kiani, S. Escalera, Hand pose aware multimodal sign language recognition, Multimedia Tools And Applications, **2021**. https://link.springer.com/article/10.1007/s11042-020-09700-0

- **R. Rastgoo**, K. Kiani, S. Escalera, Sign language applications and methods: A Deep Survey, Expert Systems With Applications, **2020**. https://doi.org/10.1016/j.eswa.2020.113794.

- **R. Rastgoo**, K. Kiani, S. Escalera, Hand Sign Language Recognition using Multi-View Hand Skeleton, Expert Systems With Applications, **2020**, https://doi.org/10.1016/j.eswa.2020.113336.

- **R. Rastgoo**, K. Kiani, S. Escalera, Video-based Hand Sign Language Recognition Using a Deep Cascaded Model, Multimedia Tools And Applications, **2020**. https://doi.org/10.1007/s11042-020-09048-5

- N. Majidi, K. Kiani, **R. Rastgoo**, Two-stream deep model for super-resolution enhancement from single image, Journal of AI and Data Mining, **2020**.

- **R. Rastgoo,** K. Kiani, Performance improvement of deep convolutional neural network using fine-tuning and transfer learning, Modeling Journal of Semnan University, **2019**. 10.22075/JME.2019.16299.1613

- **R. Rastgoo**, K. Kiani, and S. Escalera, Multi-Modal Deep Hand Sign Language Recognition in Still Images Using Restricted Boltzmann Machine, Entropy **2018**, 20, 809; doi:10.3390/e20110809.

- **R. Rastgoo**, V. Sattari-Naeini, Multi-Constraint Optimal Path Finding for QoS-Enabled Smart Grids: A Neuro-Fuzzy Approach, Journal of Computing and Security, **2018**.

- **R. Rastgoo**, V. Sattari-Naeini, GSOMCR: Multi-Constraint Genetic-Optimized QoS-Aware Routing Protocol for Smart Grids, Springer Journal of Science and Technology, Transactions of Electrical Engineering, June **2018**, Volume 42, Issue 2, pp 185–194.

- **R. Rastgoo**, V. Sattari-Naeini, Tuning Parameters of the QoS-Aware Routing Protocol for Smart Grids Using Genetic Algorithm, International Journal of Applied Artificial Intelligence 30:1, 52-76, **2016**, doi: http://dx.doi.org/10.1080/08839514.2016.1138794.

- F. Bordbar, **R. Rastgoo**, M.A. Askarzadeh, M.S. Tavallali, Prediction of Residential Natural Gas Consumption Using Artificial Neural Network, The 9th International Chemical Engineering Congress & Exhibition (IChEC 2015) Shiraz, Iran, 26-28 December, **2015**.

- **R. Rastgoo**, V. Sattari-Naeini, A Neuro-Fuzzy QoS-Aware Routing Protocol for Smart Grids, Electrical Engineering (ICEE), **2014,** 22nd Iranian Conference on Tehran, Iran, doi: 10.1109/IranianCEE.2014.6999696.

- **R. Rastgoo**, V. Sattari-Naeini, A Genetic QoS-aware Routing Protocol for Smart Grids, International Conference of Computer Networks and Distributed Systems, Sharif University, Tehran, Iran, **2013**.

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