

Haytham Ashraf





Ph.D. | University of Tsukuba



About me


Haytham Ashraf is currently pursuing a Ph.D. at the Institute of Systems and Information Engineering, University of Tsukuba. His research focuses on the fascinating intersection of mathematics, shape modeling, inverse problems, and computational imaging. Specifically, Haytham's interests lie in the field of tomographic imaging and its applications, where he explores innovative approaches to effectively capture and reconstruct both two-dimensional and three-dimensional images.

Contact

 Born on 12/02/1992
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 Haytham Ashraf

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Languages

 Arabic - Native Language

 English - Very Good Knowledge

 Japanese - Basic Knowledge

EDUCATION

- | | | |
|-----------------|---|--|
| 10/2020-09/2023 | Doctor of Engineering
University of Tsukuba
<i>Faculty of Engineering</i>
Institute of Systems and Information Engineering. |  Tsukuba, Japan |
| 04/2016-09/2018 | Master Degree
Sohag University
<i>Faculty of Science</i>
Mathematics department.
Thesis title: <i>Special Curves and Surfaces in Euclidean and Pseudo-Euclidean Spaces</i> |  Sohag, Egypt |
| 09/2009-05/2013 | Bachelor Degree
Sohag University
<i>Faculty of Science</i>
Mathematics department.
Grade: Excellent with Honors |  Sohag, Egypt |

WORK EXPERIENCE

- | | | |
|-----------------|--|--|
| 07/2022-03/2023 | Teaching Assistant
<i>Institute of Systems and Information Engineering</i>
Faculty of Engineering, University of Tsukuba. |  Tsukuba, Japan |
| 07/2021-03/2022 | Teaching Assistant
<i>Institute of Systems and Information Engineering</i>
Faculty of Engineering, University of Tsukuba. |  Tsukuba, Japan |
| 11/2018-09/2020 | Assistant lecturer
<i>Mathematics Department</i>
Faculty of Science, Sohag University. |  Sohag, Egypt |
| 04/2016-10/2018 | Research Assistant
<i>Mathematics Department</i>
Faculty of Science, Sohag University. |  Sohag, Egypt |
| 10/2014-09/2015 | Research fellow
<i>Mathematics Department</i>
Faculty of Science, Sohag University. |  Sohag, Egypt |

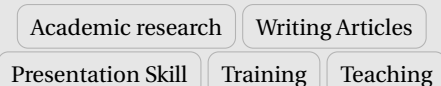
PUBLICATIONS

- | | |
|------------------------|--|
| Journal Article | Binary Tomography Reconstruction with Limited-Data by a Convex Level-Set Method , Haytham A. Ali, Hiroyuki Kudo, <i>CMC-Computers Materials & Continua</i> , 2022, doi 10.32604/cmc.2022.029394 |
| | On Magnetic Curves According to Killing Vector Fields in Euclidean 3-Space , H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, <i>International journal of analysis and applications</i> , 2022, doi 10.28924/2291-8639-20-2022-18 |
| | Generating Bézier curves for medical image reconstruction , H. S. Abdel-Aziz, E. A. Zanaty, Haytham A. Ali and M. K. Saad, <i>Results in physics</i> , 2021, doi 10.1016/j.rinp.2021.103996 |
| | Inextensible flows of curves in three-dimensional light cone , H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, <i>International Journal of Mathematics and Computations</i> , 2019, doi 10.1010/1010-1515-2019 |

Soft Skills and Strengths



Professional Skills







Programming Languages Skills

- **Matlab:** Highly Specialised
- **Mathematica:** Advanced
- **Python:** Intermediate
- **C/C++:** Basic
- **Java:** Basic


Office Automation

- **MS Office (Excel, Word, PowerPoint):** Higly Specialized
- **LaTeX:** Advanced

Other Interests

- Chess 
- Travels 
- Movies 
- Books 

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PUBLICATIONS

ArXiv Article

Some properties of special magnetic curves, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, *International Journal of Analysis and Applications*, 2018, [doi](#) 10.28924/2291-8639-16-2018-193

Spacelike Curves of Constant-Ratio in Pseudo-Galilean Space, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, [doi](#) 10.48550/arXiv.2208.03686

Affine Factorable Surfaces in Pseudo-Galilean Space, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, [doi](#) 10.48550/arXiv.1812.00765

Conference Proceedings

Level-Set Method for Limited-Data Reconstruction in CT using Dictionary-Based Compressed Sensing, Haytham A. Ali, Hiroyuki Kudo, *15th International Conference on Computer and Automation Engineering (ICCAE), Sydney, Australia, 2023*, [doi](#) 10.1109/ICCAE56788.2023.10111292

New Level-Set-Based Shape Recovery Method and its application to sparse-view shape tomography, Haytham A. Ali, Hiroyuki Kudo, *In 4th International Conference on Digital Medicine and Image Processing (DMIP '21), Kyoto, Japan, 2021*, [doi](#) 10.1145/3506651.3506655

Other Conferences

Parametric Level Set Methods for Limited Data CT Image Reconstruction, Haytham A. Ali and Hiroyuki Kudo, *RIMS Workshop on Inverse Problems, Medical Imaging, and Related Topics, Kyoto, Japan, 2023*, [doi](#)

A reconstruction method for binary limited-data tomography using a dictionary-based sparse shape recovery, Haytham A. Ali, Katsuya Fujii and Hiroyuki Kudo, *The 41st Annual Meeting of the Japanese Society for Medical Imaging, Nagoya, Japan, 2022*, [doi](#) 10.48550/arXiv.2208.06766

Inextensible flows of curves in three-dimensional space, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, *The 7th International Conference on Mathematics and Information Sciences (ICMIS), Sohag, Egypt, Mar., 2018*, [doi](#)

Magnetic curves for spherical images in Euclidean space, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, *The Fourth scientific conference for young researchers at Sohag University, Sohag, Egypt, 2018*, [doi](#)

Special Curves in the Three-Dimensional Light Cone, H. S. Abdel-Aziz, M. K. Saad and Haytham A. Ali, *6th International Conference on Mathematics and Information Sciences (ICMIS), Zewail City, Egypt, 2017*, [doi](#)

Awards & Research grants



- Excellent oral presentation certificate, International Conference on Computer and Automation Engineering (ICCAE 2023), Sydney, Australia, 2023.
- Travel Grant, RIMS Workshop on Inverse Problems, Medical Imaging, and Related Topics, Kyoto, Japan, 2023.
- The NEC C&C Foundation's grant for researchers, University of Tsukuba, Japan, Principal Investigator (Oct. 2022 ~Mar. 2023).
- Monbukagakusho Scholarship, Japanese Government, Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan (active: Oct. 2020 ~Sept. 2023)
- Geometric representation of Medical Image Reconstruction, Academic of Scientific Research & Technology research grant, Sohag University, Egypt, Co-Principal Investigator (April. 2020 ~Mar. 2021).