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Research Interests

Forensic Science - Fingerprint, Bloodstain Pattern Analysis

Machine Learning, Deep Learning, Optimization

Interdisciplinary research

Statistics

Qualifications

Employment

Engineering & Applied Science
Birmingham, United Kingdom
9 Mar 2020 → 31 Dec 2022

Research Associate

Computer Science
Engineering & Applied Science
9 Mar 2020 → 31 Dec 2022

Computer Science Research Group

Engineering & Applied Science
9 Mar 2020 → 31 Dec 2022

Research outputs

Application of Machine Intelligence in Digital Pathology: Identification of Falciparum Malaria in Thin Blood Smear Image
Nag, S., Basu, N. & Bandyopadhyay, S. K., 12 Dec 2019, *Advancement of Machine Intelligence in Interactive Medical Image Analysis*. Verma, O. P., Roy, S., Pandey, S. C. & Mittal, M. (eds.). 1 ed. Singapore, p. 65-97 33 p. (Advancement of Machine Intelligence in Interactive Medical Image Analysis).

Critical Analysis of Malaria Parasite Detection Using Machine Learning Technique

Basu, N. & Nag, S., 1 May 2019, In : *Journal of Medical Imaging and Health Informatics*. 9, p. 830-837 8 p.

Identification of Unique Characteristics of Deception from Facial Expression

Mondal, A., Mukhopadhyay, P., Basu, N., Bandyopadhyay, S. K. & Chatterjee, T., 1 Feb 2018, In : *Current Aging Science*. 114, 04, p. 901- 906 6 p.

Hybrid Approach towards Malaria Parasites Detection from Thin Blood Smear Image

Nag, S., Basu, N. & Bandyopadhyay, S. K., 30 Oct 2017, *Hybrid Intelligent Techniques for Pattern Analysis and Understanding*. Bhattacharyya, S., Mukherjee, A., Pan, I., Dutta, P. & Bhaumik, A. K. (eds.). 1 ed. New York: Taylor & Francis, p. 93-122 30 p.

Crime scene reconstruction—Sex prediction from blood stained foot sole impressions

Basu, N. & Bandyopadhyay, S. K., Sep 2017, In : *Forensic Science International*. 278, p. 156-172 17 p.

Initial data release of regular blood drip stain created by varying fall height, angle of impact and source dimension

Basu, N. & Bandyopadhyay, S. K., 1 Sep 2016, In : *Data in Brief*. 8, p. 1194-1205 12 p.

2D Source area prediction based on physical characteristics of a regular, passive blood drip stain

Basu, N. & Bandyopadhyay, S. K., Sep 2016, In : *Forensic Science International*. 266, p. 39-53 14 p.

Optimization of Crime Scene Reconstruction Based on Bloodstain Patterns and Machine Learning Techniques

Bandyopadhyay, S. K. & Basu, N., 2016, *Handbook of Research on Natural Computing for Optimization Problems*. Mandal, J. K., Mukhopadhyay, S. & Pal, T. (eds.). IGI Global, p. 960-988 28 p.