Sharath Chandra Guntuku

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Education

Nanyang Technological University (NTU)   **Singapore**
PhD. in Computer Science, GPA $- 4.7/5.0$ *Aug 2013 – present*
Advisor: – Prof. Lin Weisi
Thesis (Ongoing): On the Influence of Personality on Users' Multimedia Preferences

Birla Institute of Technology & Science (BITS) Pilani   **India**
B.E (Hons) in Computer Science, GPA $- 8.99/10.0$ *July 2009 – May 2013*
Advisor: – Prof. Chittaranjan Hota
Thesis: Analysis and Detection of Security and Privacy Threats in P2P Networks using Machine Learning

Experience

Visiting Scholar   **University of Pennsylvania, U.S.A**
World Well-Being Project   *August 2016 – current*

Research Intern   **Panasonic R&D, Singapore**
Deep Learning for 3D Face Recognition   *Jan – Jun 2016*

Graduate Teaching Assistant   **NTU, Singapore**
Digital Logic; Java   *Aug 2015 – Current*

Summer Intern   **CMC Ltd., India**
Software Development   *May – Aug 2011*

Coursework

Coursera: Machine Learning

NTU: Computational Intelligence: Methods and Applications, Data Mining, Social Computing, Research Methods, Human Computer Interaction, Scientific Visualization

BITS-Pilani: Security Analysis and Portfolio Management, Operations Research, Core CS Modules

Technical skills

- **Programming Languages:** Python, Matlab, PHP, HTML, C.
- **Tools:** Caffe, Pandas, Weka, AutoCAD, Minitab, WireShark.
- **Other Projects:** Emotion-based Implicit Feedback Modeling on Videos, Rating Passes in Soccer Using Real-Time Spatio-Temporal Data Streams, Facial Keypoint Detection.

Publications

Journals

- **S.C. Guntuku**, J. T. Zhou, S. Roy, W. Lin, I. W. Tsang, "Understanding Deep Representations Learned in Modeling User 'Likes' ", IEEE Transactions on Image Processing, 2016 [PDF] (IF: 3.625)
- **S. C. Guntuku**, J. T. Zhou, S. Roy, W. Lin, I. W. Tsang, "Who Likes What and Why? Insights into Image based Personality Modeling", IEEE Transactions on Affective Computing, 2016 [PDF] (IF: 2.675)
- M.J.Scott*, **S. C. Guntuku***, G. Ghinea, W. Lin, "Do Personality and Culture Influence Perceived Video Quality and Enjoyment? ", IEEE Transactions on Multimedia, 2016 (* – denotes equal contribution) [PDF] (IF: 2.303)
- K. Singh*, **S.C. Guntuku***, A. Thakur, C. Hota, "Big Data Analytics framework for Peer-to-Peer Botnet detection using Random Forests", Information Sciences, Volume 278, 10 September 2014 (* – denotes equal contribution) [PDF] (IF: 4.038)
- A. K. Gupta, **S.C. Guntuku**, R. K. Desu, Aditya B, "Optimisation of turning parameters by integrating genetic algorithm with support vector regression and artificial neural networks", The International Journal of Advanced Manufacturing Technology, Springer London, 2014 [PDF]

Conferences

- S.Roy, **S. C. Guntuku**, "Latent Factor Representations for Cold Start Video Recommendation", ACM RecSys 2016 [PDF]
- **S. C. Guntuku**, S. Roy, W. Lin, K. Ng, W.K. Ng, V. Jakhetiya, "Personalizing User Interfaces for improving Quality of Experience in VoD Recommender Systems", IEEE QoMEX, 2016 [PDF]
- **S. C. Guntuku**, L.Qiu, S. Roy, W. Lin, V. Jakhetiya, "Do others perceive you as you want them to? Modeling Personality based on Selfies", ACM Multimedia 2015 Workshop on Affect and Sentiment in Multimedia [PDF]
- M.J.Scott*, **S. C. Guntuku***, Y. Huan, G. Ghinea, W. Lin, "Modelling Human Factors in Perceptual Multimedia Quality: On The Role of Personality and Culture", ACM Multimedia 2015 (* – denotes equal contribution) [PDF]
- **S. C. Guntuku**, M.J.Scott, G. Ghinea, W. Lin "Modelling the Influence of Personality and Culture on Affect and Enjoyment in Multimedia", ACII 2015 (Oral: 28% Acceptance Rate) [PDF]
- **S. C. Guntuku**, S. Roy, W. Lin, "Evaluating Visual and Textual Features for Modeling User 'Likes'", IEEE ICME, 2015.(30% Acceptance Rate) [PDF]
- **S. C. Guntuku**, M.J.Scott, Y. Huan, G. Ghinea, W. Lin, "The CP-QAE-I: A Video Dataset for Exploring the Effect of Personality and Culture on Perceived Quality and Affect in Multimedia", IEEE QoMEX, 2015. [PDF]
- **S. C. Guntuku**, S. Roy, W. Lin, "Personality Modeling Based Image Recommendation", Multi-Media Modeling. Springer International Publishing, 2015.(Oral: 36% Acceptance Rate) [PDF]
- **S. C. Guntuku**, J. T. Zhou, S. Roy, W. Lin, I. W. Tsang, "Deep Representations to Model User 'Likes'", 12th Asian Conference on Computer Vision, 2014 (Oral: 3.9% Acceptance Rate) [PDF]

Under Submission

- **S. C. Guntuku**, M.J.Scott, Y. Zhu, G. Ghinea, W. Lin, J. Redi "Quality of Experience in Multimedia - A User Factors Perspective", Feature Article in IEEE Multimedia Magazine

Awards

- **Intel Invent50**, Our idea on personalized tourist hostspot recommender system is accepted to top 18 finalists among 150 applications, 2015
- **ACM Travel Grant**, to present our work on a) investigating the influence of personality on multimedia quality and enjoyment, and b) automatic personality modeling based on users' selfies at ACM Multimedia, Brisbane 2015
- **Nominated for Microsoft Research Asia Fellowship**, 1 student in the department, Nanyang Technological University, Singapore, 2015
- **Nanyang Engineering Doctoral Scholarship**, Nanyang Technological University, Awarded to 10 in the university and 1 in the department, out of $100+$ incoming students for graduate studies, Singapore, 2013
- **NTU Research Scholarship**, Nanyang Technological University, Singapore, 2013
- **Ranked 3 in National Cyber Olympiad**, India, 2007
- **Merit Certification for 100% score in IT**, CBSE, India, 2007
- **Led a team to win 1st in State and 7th in Country for National Aerospace Olympiad**, Aeronautical Society of India, 2007
- **Best Outgoing Student**, High School, India, 2007

Scientific Talks and Presentations

- **Deep Representations to Model User 'Likes'**, University Cultural Center, National University of Singapore, 2014. [Video]
- **Putting a Satellite in Moon's Orbit: Present and Future Propulsion Systems**, Aeronautical Society of India, 2007.
- **Aryabhatta to Chandrayaan - India's Space Journey**, Defence Research and Development Laboratory, 2006. [Video]

References

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