



Manisha Luthra

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🐙 <https://github.com/luthramanisha>

EDUCATION

Technical University Darmstadt, Germany

Jan 2021 (planned)

Doctor of Engineering (Ph.D.), Electrical Engineering and Information Technology

Research Area: *Middleware and Distributed Systems*

Thesis topic: *Quality of Service Management for Event-based Systems (tentative)*

Advisors: Prof. Dr.-Ing. Ralf Steinmetz, Prof. Dr. Boris Koldehofe

Technical University of Darmstadt, Germany

July 2016

Master of Science (M.Sc.), Computer Science

GPA: 1.76

Specialization: *Distributed Systems*

Thesis topic: *A Novel Approach for Multimodal Analysis of*

Grade: 1.0

User-Generated Video Quality

Advisors: Prof. Dr.-Ing. Wolfgang Effelsberg, Dr.-Ing. Stefan Wilk

University of Bremen

Aug 2015

18th International Summer University for Women in Computing

Grade: 1.0

Delhi University, India

June 2011

Bachelor of Science (B.Sc.) (Hons), Computer Science

1st division

WORK EXPERIENCE

Visiting Researcher (planned)

delayed due to COVID

Large Scale Data and Systems Group, Imperial College of London

London, UK

Host: Prof. Dr. Peter Pietzuch

(a research visit was planned from July-October but got postponed due to COVID)

Research Assistant

Nov 16 – today

Multimedia Communications Lab, Technical University of Darmstadt

Darmstadt, Germany

Funded by: DFG CRC 1053 MAKI - Multi Mechanism Adaptation for the Future Internet

Visiting Lecturer

Aug 2016 – Sep 2016

19th International Summer University for Women in Computing, University of Bremen

Bremen, Germany

Junior Research Assistant (as working student)

Aug 2014 – Oct 2016

Distributed Multimedia Systems, Technical University of Darmstadt

Darmstadt, Germany

Teaching Assistant (as working student)

Nov 2015 – Apr 2016

Telecooperation Lab, Technical University of Darmstadt

Darmstadt, Germany

Software Developer (as working student)

Apr 2014 – Oct 2016

Kobil System GmbH, Darmstadt, Germany

Member Technical Staff

Aug 2011 – Sept 2013

HCL Technologies Pvt. Ltd, Noida, India

TEACHING**Multimedia Communications Seminar****Oct 2017 - today***Organizer and Supervisor*

Advanced Topics in Future Internet Research

Adaptive Communication Systems

Proseminar ETiT

*Supervised 6 seminar topics***Multimedia Communications Lab/Project****Apr 2017 - today***Supervised 3 Lab/Project topics***Master and Bachelor thesis****Jan 2017 - today***Supervised 6 Master and 2 Bachelor thesis topics***SELECTED****PUBLICATIONS****ANCS 2019**  

M Luthra, B Koldehofe, J Höchst, P Lampe, A H Rizvi, R Kundel, B Freisleben, *INetCEP: In-Network Complex Event Processing for Information-Centric Networking*. In ACM/IEEE 15th Symposium on Architectures for Networking and Communications Systems, pp. 1-13. [Acceptance rate 12/50, 24%]

Proceedings of IEEE 2019 

B Alt, M Weckesser, C Becker, M Hollick, S Kar, A Klein, R Klose, R Kluge, H Köppl, B Koldehofe, W R Khudabuksh, **M Luthra**, M Mousavi, M Mühlhäuser, M Pfannemüller, A Rizk, A Schürr, R Steinmetz, *Transitions: A protocol-independent view of the future internet*. In Proceedings of the IEEE, 107 (4), pp. 835-846. [Impact factor: 10.25]


DEBS 2018  

M Luthra, B Koldehofe, P Weisenburger, G Salvaneschi, R Arif, *TCEP: Adapting to dynamic user environments by enabling transitions between operator placement mechanisms*. In Proceedings of the 12th ACM International Conference on Distributed and Event-Based Systems, pp. 136-147. [Acceptance rate 12/31, 38.7%]

SEAMS 2017  

P Weisenburger, **M Luthra**, B Koldehofe, G Salvaneschi, *Quality-aware runtime adaptation in complex event processing*. In IEEE/ACM 12th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, pp. 140-151. [Acceptance rate 13/61, 21.3%]

ACM MM 2016 

S Wilk, **M Luthra**, W Effelsberg, *One Sensor is not Enough: Adapting and Fusing Sensors for the Quality Assessment of User Generated Video*. In Proceedings of the 24th ACM international conference on Multimedia, pp. 626-630. [Acceptance rate 195/650, 30%]
View all publications at [Google Scholar profile](#) 

AWARDS**MAKI Female Mentoring and Networking Award****Oct 2016**

by DFG Collaborative Research Center 1053 MAKI - Multi Mechanism Adaptation for the Future Internet

As a result of a successful publication of master thesis “One Sensor is not Enough: Adapting and Fusing Sensors for the Quality Assessment of User Generated Video” travelled to the conference and presented our paper at the 24th ACM International Conference on Multimedia 2016, in Amsterdam, Netherlands

MAKI Female Student Travel Award**Jun 2015**

by DFG Collaborative Research Center 1053 MAKI - Multi Mechanism Adaptation for the Future Internet

Selected as an awardee over the female students of TU Darmstadt and RWTH Aachen in recognition of remarkable dedication and outstanding study achievements in computer science in terms of forward-looking contributions to Future Internet.

Silver Award**2011**

by Sony Corporation Japan at HCL Technologies Pvt. Ltd.

Silver Award from the President of Sony Corp. Japan (client) at HCL Technologies in recognition of an idiosyncratic idea for the product.

ACADEMIC SERVICES**Publicity Co-Chair (planned)****2021**

22nd ACM/IFIP International Middleware Conference
Quebec, Canada

CoronaSurveys Ambassador  **2020**

Collaborative research project to present estimations on evolution of COVID 19

Web and Local Co-Chair  **2019**

13th ACM International Conference on Distributed and Event-Based Systems
Darmstadt, Germany

Reviewer**2019**

ACM Computing Surveys

External Reviewer**2018, 2019**

ACM/IFIP International Middleware Conference

CERTIFICATIONS**KIT, TU Darmstadt, TU Kaiserslautern, Saarland University****July 2016**

Software Innovations for Digital Enterprises

Data Centre Alliance, The Data Centre Industry Association**May 2014**

Data Centre Foundation Course

Aspiring Minds**July 2011**

AMCAT Certified Data Processing Specialist

LANGUAGES**English:** Proficient**German:** Intermediate**Hindi:** Native**INTERESTS**

Swimming, cooking and dancing