

Soumyadeb Chowdhury

PhD MSc MBCS SFHEA

Personal Information

Designation **Associate Professor Emerging Technology, Analytics and Sustainability Management**
Sep 2020 **Head of Toulouse Business School Center of Excellence Sustainable Development and Corporate Social Responsibility (SD-CSR)**
Information, Operations and Management Sciences
TBS Education, France

Work Address TBS Education, Room 119 , SEBASTOPOL building,
1 Place Alphonse Jourdain, 31068 Toulouse, France

Email s.chowdhury@tbs-education.fr

Web <https://www.tbs-education.com/teacher/chowdhury-soumyadeb/>

ORCID <https://orcid.org/0000-0002-8074-248X>

LinkedIn <https://www.linkedin.com/in/soumyadeb-chowdhury-39985418b/>

Research Interests

- Artificial Intelligence, AI Explainability and Transparency, Collaborative Intelligence
- Metaverse Adoption, Implications, Strategies and World Ahead
- Digital Transformation Strategy: AI, Blockchain, Cloud and Data analytics
- Circular Economy, Sustainability Development Goals, Business 5.0
- Supply Chain Resilience, Due Diligence and Analytics
- Green and Digital Skills Models, Frameworks and Pedagogical Innovation
- Data-driven decision making in business and Human Factors in Industry 4.0

Teaching Interests

- Emerging Technologies - AI, Blockchain, Virtual and Augmented Reality, Metaverse
- Emerging technologies and Implications, Digital Transformation
- Research Methods and Techniques
- Sustainability Analytics for Grand Challenges, Sustainable Oriented Innovation
- Technology driven sustainable business operations
- Design Thinking and Human-Centred Design
- Database Management, SQL and NOSQL for data-driven business decision-making

Education

- Dec 2017 - **Postgraduate Certificate in Learning and Teaching in Higher Education**, Aston University. Degree
- Dec 2018 Classification - **Distinction**, Reference num: PR159536
- Jan 2011 - **PhD Computing Science, School of Computing Science, University of Glasgow**
- Jul 2014 Thematic Area: Usable Security and Security analytics.
- Sep 2009 - **MSc Computing Science with Distinction, School of Computing Science, University of Glasgow.**
- Sep 2010
- Aug 2005 - **BTech Computer Science and Engineering, First class with Distinction, Amity School of Engineering**
- Jun 2009 **and Technology, Amity University, India.**

Previous Employment

- Sep 2020 - **Visiting Academic Scholar** Aston Business School, Aston University, United Kingdom. Research collaboration and co-investigator in funded projects
Jun 2023
- Jun 2020 - **Senior Lecturer Information and Communication Technology, and Programme Director Business Computing and IT** Aston Business School, Aston University, United Kingdom.
Aug 2020
- Apr 2017 - **Lecturer Information and Communication Technology, and Programme Director Business Computing and IT** Aston Business School, Aston University, United Kingdom.
Jun 2020
- Jul 2015 - **Lecturer InfoComm Technology and Co-ordinator for Industry Team Project** Singapore Institute of Technology.
Mar 2017
- Jun 2016 - **Honorary Lecturer University of Glasgow** Contributing to delivery and management of the modules Professional Software Development and Team Project (collaboration with industry).
Present
- Jul 2014 - Jul 2015 **Research Associate Urban Big Data Center**, School of Computing Science, University of Glasgow. Contributing to the Integrated Multimedia City Data (iMCD) project in the Urban Big Data Research Center (funded by Economic and Social Research Council).

Notable Teaching Achievements

- 2022 **AMBA BCG Teaching Excellence Awards Finalist** - Best Innovation Strategy - Blind Search.
- 2022 **TBS Innovation Awards Winner** - Best Teaching pedagogy - Blind Search. Unique way to engage and motivate students in research methods courses
- 2021 **TBS Innovation Awards Winner** - Best Fresh Teaching Pedagogy. Digital Story-telling to Engage Students in Online, Hybrid and Face-face Teaching Sessions
- 2021 **Toulouse Business School 2021 -Best MSc Module Voted by Students** - Web Design and Development for Business Students (HTML, CSS, Javascript, Visualisation, Content Creation and Management)
- 2020 **Aston Business School 2020 Teaching Awards Winner** - Best Module Evaluation Results for the final year undergraduate module Theory and Practice of E-commerce
- 2020 **Aston University Student Union Awards Winner** - Best Feedback and Student Development, for Year2 module IT and Web development and Final Year module Theory and Practice of E-commerce
- 2020 **National Student Satisfaction (NSS) for the BSc Business Computing and IT in Aston University: 93.5, rated among Top 3 undergraduate programmes in Aston University**
- 2020 **Aston University Achievement Awards Final Nominee** - Excellent Learning and Teaching Practice

Selected Research Impact

- 2022 **Co-authoring the Chapter Sustainability Pivot, Collaborating with World Economic Forum for their report on SME Future Readiness.** New Sustainability Champion Speaker
- 2022 **Presentation - Scottish Parliamentary Officers** Project: Enhancing Workplace Wellbeing of SMEs Employees during and Post pandemic
- 2022 **Certificate for Top Cited Research 2021-22 in International Journal of Production Research**
Rodriguez-Espindola, O., **CHOWDHURY, S.**, Beltagui, A., and Albores, P. (2020) The Integration of Technology for Humanitarian Logistics: The role of AI, Blockchain and 3D printing. **International Journal of Production Research (IJPR) FNEGE-2, AJG-3**
- 2020 **Certificate for Top Cited Research 2021-22 in British Journal of Management**
Dey, P K., Malesios., C, De, D., **CHOWDHURY, S.**, and Abdelaziz, FB. Lean Management Practices, Sustainable oriented Innovation and Corporate Social Responsibility of Small and Medium-sized Enterprises **British Journal of Management (BJM) - FNEGE-2, AJG-4**

Selected Published Journal Articles

- 2022 **CHOWDHURY, S.**, Budhwar, P., Dey, P.K., Joel-Edgar, S. and Abadie, A. AI-employee collaboration and business performance: Integrating knowledge-based view, socio-technical systems and organisational socialisation framework.. **Journal of Business Research. FNEGE-2, AJG-3.**
- 2022 **CHOWDHURY, S.**, Joel-Edgar, S., Dey, P.K., Bhattacharya, S. and Kharlamov, A. Embedding Transparency in Artificial Intelligence Machine Learning Models: Managerial Implications on Predicting and Explaining Employee Turnover **International Journal of Human Resource Management FNEGE-2, AJG-3.**
- 2022 **CHOWDHURY, S.**, Joel-Edgar, S., Bhattacharya, S., Rodriguez-Espindola, O., Abadie, A. and Truong, L. Unlocking the value of artificial intelligence in human resource management through AI capability framework **Human Resource Management Review. FNEGE-2, AJG-3.**
- 2022 **CHOWDHURY, S.**, Rodriguez-Espindola, O., Dey, P. and Budhwar, P. Blockchain technology adoption for managing risks in operations and supply chain management: evidence from the UK **Annals of Operations Research. FNEGE-2, AJG-3.**
- 2022 Rodríguez-Espíndola, O., **CHOWDHURY, S.**, Dey, P.K., Albores, P. and Emrouznejad, A. Analysis of the adoption of emergent technologies for risk management in the era of digital manufacturing. **Technology Forecasting and Social Change. FNEGE-2, AJG-3.**
- 2022 **CHOWDHURY, S.**, Dey, P.K., Rodríguez-Espíndola, O., Parkes, G., Tuyet, N.T.A., Long, D.D. and Ha, T.P. Impact of Organisational Factors on the Circular Economy Practices and Sustainable Performance of Small and Medium-sized Enterprises in Vietnam **Journal of Business Research. FNEGE-2, AJG-3.**
- 2022 Nudurupati, S.S., Budhwar, P., Pappu, R.P., **CHOWDHURY, S.**, Kondala, M., Chakraborty, A. and Ghosh, S.K. Transforming sustainability of Indian small and medium-sized enterprises through circular economy adoption **Journal of Business Research. FNEGE-2, AJG-3.**
- 2022 Rodríguez-Espíndola, O., Cuevas-Romo, A., **CHOWDHURY, S.**, Díaz-Acevedo, N., Albores, P., Despoudi, S., Malesios, C. and Dey, P. The role of circular economy principles and sustainable-oriented innovation to enhance social, economic and environmental performance: Evidence from Mexican SMEs **International Journal of Production Economics FNEGE-1, AJG-3.**
- 2022 Dey, P.K., Malesios, C., **CHOWDHURY, S.**, Saha, K., Budhwar, P. and De, D. Adoption of circular economy practices in small and medium-sized enterprises: Evidence from Europe. **International Journal of Production Economics FNEGE-1, AJG-3.**
- 2020 Dey, P K., Malesios, C., De, D., Budhwar, P., **Chowdhury, S.**, and Cheffi, W. Circular Economy to Enhance Sustainability of Small and Medium sized Enterprises. **Business Strategy and the Environment. FNEGE-3, AJG-3.**
- 2019 Dey, P K., Malesios., C, De, D., **CHOWDHURY, S.**, and Abdelaziz, FB. Could Lean Practices and Process Innovation Enhance Supply Chain Sustainability of Small and Medium Sized Enterprises? **Business Strategy and the Environment. FNEGE-3, AJG-3.**
- 2019 De, D., **CHOWDHURY, S.**, Dey, PK., and Ghosh SK. Impact of Lean and Sustainability oriented innovation on Sustainability performance of Small and Medium Sized Enterprises: A Data Envelopment Analysis-based Framework. **International Journal of Production Economics FNEGE-1, AJG-3**

Selected Articles Under Revise and Resubmit

- 2022 **CHOWDHURY, S.**, Abadie, A., Dey, PK. An Artificial Intelligence Omnichannel Versatility: Interplay between AI Capabilities, Omnichannel Integration Quality and Organizational Performance in Healthcare Supply Chain. **Journal of Business Research FNEGE-2, AJG-3**
- 2022 **CHOWDHURY, S.**, Abadie, A., Dey, PK., Yaroson, E., Sarkar, S. Artificial Intelligence Driven Supply Chain Resilience in Vietnamese Manufacturing Small and Medium Sized Enterprises **International Journal of Production Research FNEGE-2, AJG-3**

Books/Book Chapter

- Sep 2022 Dey, P.K., **CHOWDHURY, S.**, Malesios, C. Supply Chain Sustainability and Circular Economy in Small and Medium Sized Enterprises **Taylor and Francis**
- 2021 Traczykowsk, T., Joel-Edgar, S., **CHOWDHURY, S.** A Journey Through Dante and the Sustainable Development Goals: Using Nonlinear Game Play to Teach. In Embedding Sustainability, Corporate Social Responsibility and Ethics in Business Education. Edward Elgar
- Sep 2019 **CHOWDHURY, S.**, Rodriguez-Espindola, O., Beltagui, A ., and Albores, P., and Dey, P.K. Cultivating students digital literacy through a design-thinking approach **Higher Education Teaching Book** .

Successful Research Grants Past 2 years

- Oct 2021-
Sep 2023 **Principal Investigator** Sustainable and Employee-centric Transformations in French SMEs Post Pandemic: Mutually Supportive Strategies to Enhance Low Carbon Productivity and Employee Wellbeing. **Funder - ANR French National Research Agency**
- Dec 2021-
Jan 2023 **Co-Investigator** Circular Economy and Sustainability Education in India. **Funder - British Council Going Global Grants**
- Aug 2021- Jul
2022 **Principal Co-Investigator** Sustainable, inclusive and Digital Transformtion in UK Small Businesses. **Funder - Midlands Innovation Engine**
- Jan 2021-
May 2022 **Principal Co-Investigator** Circular Economy Adoption and Implementation in Thai Agro-based Industries. **Funder - British Council Institutional Links Funding: GBP 85,000.**
Status - Completed
- Jun 2020 -
Feb 2022 **Principal Co-Investigator** Impact of COVID-19 on Staff Mental Health and Well-Being in SMEs in the UK Productivity. **Funder - Economic and Social Research Council COVID-19 Rapid Response Call UK Collaborators: York University, Keele University, Birmingham University. Funding: GBP 253,000.**
Status - Completed
- May 2020 -
Mar 2021 **Principal Investigator** Artificial Intelligence in Creative Industry - Capacity and Capability Development. **Funder - Aston university Small Grants. Funding: GBP 3,800.**
Status - Completed
- Jan 2020-
Jun 2021 **Principal Co-Investigator** Circular Economy Knowledge Hub: Promoting Multi-Disciplinary Research, Capacity Building and Leadership in Vietnam. **Funder - Newton British Council Research Environment Links. International Collaborators: Hanoi University of Science and Technology and University of Danang (VNUK). Funding: GBP 124,606.**
Status - Completed

Editorial Responsibilities

- Jun 2022-24 Communication and Associate Editor, Editorial Board **Human Resource Management Journal, FNEGE-2, AJG-4***
- Jun 2022-23 Co-Opted Council Member **British Academy of Management Research and Publications**
- 2022-23 **CHOWDHURY, S.**, Emrouznejad, A. Transparent and Responsible Artificial Intelligence: Implications for Operations Research **Annals of Operations Research, FNEGE-2, AJG-3**
Guest Editorial - Ongoing
- 2022-23 Smart and Resilient Circular Supply Chain Operations: Opportunities for Social Innovation to address Grand Challenges **Technovation, FNEGE-2, AJG-3**
Guest Editorial - Upcoming
- 2019-20 **CHOWDHURY, S.**, Emrouznejad, A., and Dey, P.K. Blockchain in Operations and Supply Chain Management **Annals of Operations Research, FNEGE-2, AJG-3**
Guest Editorial - Completed

External Workshop/ Courses

- 2022 AI-Driven Sustainable Business Operations and Management **TBS Summer School 2022**
- 2022 Emerging technologies and responsible business paradigms **TBS International Seminar Series 2022**
- 2021 AI for Business and Management **TBS Summer School 2021**
- 2021 Managing and Fulfilling Higher Education Students' Expectations and Needs: Pandemic and What we learnt about Post Pandemic **Workshop in Advance Higher Education STEM Conference 2021** by Higher Education Academy.
- 2020 Story-telling Gamified Experience to Engage HE Students with SDGs in Varying Decision-making Contexts. **Workshop in Advance Higher Education STEM Conference 2020** by Higher Education Academy.
- 2020 Blockchain in Operations and Supply Chain Management. **Course in Universidad de los Andes, School of Management International Summer School, Colombia.**
- 2020 Introduction to Machine Learning Techniques and applications in Operations Management. One day training programme in the **UK Operations Research Society** for academic and business practitioners.
- 2020 Role of Blockchain in Transforming Operations and Digital Supply Chain Management. One day training programme in the **UK Operations Research Society** for academic and business practitioners.
- 2019 Emerging Technology in Operations and Supply Chain Management. Special session organised in The **Institute for Operations Research and the Management Sciences Conferences 2019.**

Other Engagement

- 2022 **Article in The Conversation:** How can companies create value through AI-employee collaboration ?.
- 2020 **Invited Blog in Higher Education UK Academy:** Digitised Story Telling to embed Sustainability Development Goals in higher education
- 2019 **Radio Interview** by BBC West Midlands and BBC Scotland on Drone Regulations in the UK.
- 2019 **Article in The Conversation:** Addressing mental health issues in small businesses could bring major boost to the economy.