

The 6th International Conference on Social Sciences and Intelligence Management

(SSIM 2026)

December 17-19, 2026, Chaoyang University of Technology, Taichung, Taiwan

Special Session on Computational Social Sciences and Advanced Data Analytics

Call for Papers

Organizers: Dr. Vimal Kumar and Dr. Pratima Verma

We are pleased to invite researchers, scholars, and industry practitioners to submit their original contributions to **Track 7: Computational Social Sciences and Advanced Data Analytics** at SSIM 2026. This track aims to advance interdisciplinary dialogue on how advanced quantitative methodologies and computational techniques are transforming modern social science research, theory verification, and complex behavioral analysis.

As big data and analytical capabilities continue to evolve, the intersection of computation and social sciences has opened new paradigms for understanding human behavior and societal dynamics. By integrating machine learning applications, predictive analytics, and behavioral modeling, researchers can discover non-linear patterns and simulate complex social systems. Concurrently, advanced quantitative methodologies such as structural equation modeling, panel data analysis, and longitudinal computational analysis remain critical for rigorous causal inference and evaluating long-term social trends.

This track provides a dynamic platform for academics, computational sociologists, data scientists, and research methodologists to share cutting-edge research, practical insights, and innovative applications. We particularly encourage submissions that bridge theory and practice, including empirical studies, advanced methodological frameworks, and case analyses that demonstrate how interdisciplinary computational approaches can address grand challenges across the social sciences. Contributions addressing data privacy, ethical challenges, and the validity of algorithmic models in social research are also highly welcomed.

We invite high-quality research papers, case studies, and technical reports that contribute to the advancement of computational social sciences and advanced data analytics, fostering forward-looking discussions on the future of data-driven social inquiry.

Topics of interest include, but are not limited to the following:

I. Computational Social Science & Behavioral Modeling

- Interdisciplinary Computational Approaches across the Social Sciences
- Behavioral Modeling and Agent-Based Simulation
- Machine Learning Applications in Social and Behavioral Research
- Social Network Analysis and Computational Communication Science

II. Advanced Quantitative Methodologies & Causal Inference

- Structural Equation Modeling (SEM) and Multilevel Analysis
- Panel Data Analysis and Dynamic Econometric Modeling
- Longitudinal Computational Analysis and Trend Forecasting
- Advanced Statistical Methods for Causal Inference in Non-Experimental Data

III. Predictive Analytics & Big Data Applications

- Predictive Analytics for Public Policy and Social Transformations
- Natural Language Processing (NLP) and Text Mining for Social Data
- Ethical Data Sourcing, Algorithmic Bias, and Privacy in Computational Research
- Empirical Research and Case Studies Leveraging Large-Scale Social Data

Submissions:

Papers should follow the template announced on the SSIM 2026 conference website <https://ssim2026.github.io/>, and be submitted via the Microsoft CMT system, and then select **SUBJECT AREAS: Track 7: Computational Social Sciences and Advanced Data Analytics** for submission.

Conference Proceeding Information:

Papers that are presented orally at the conference and meet the publication requirements of the SSIM 2026 conference proceedings will be considered for publication in Springer conference proceedings. The primary publication plan is within Springer's Humanities and Social Sciences-related conference proceedings series. Depending on the thematic focus of accepted papers and the final publication arrangement, selected papers may also be included in a Springer Information and Computer Science / Intelligent Systems-related proceedings series, similar to the publication model adopted by SSIM 2025.

All publication arrangements are subject to Springer's final review and approval processes. Accepted papers must satisfy the academic quality standards and formatting requirements specified by both SSIM 2026 and the designated Springer publication series.

Conference proceedings published by Springer are typically submitted for indexing in major academic databases, which may include Scopus, depending on the specific series and indexing policies at the time of publication.

- **Abstract Submission Deadline: September 10, 2026**
- **Notification of Abstract Acceptance: September 25, 2026**
- **Full Paper Submission Deadline: November 05, 2026**
- **Notification of Full Paper Acceptance: November 30, 2026**
- **Camera-Ready Paper Deadline: December 10, 2026**
- **Conference Dates: December 17-19, 2026**

For more information:

Please visit the SSIM 2026 official website <https://ssim2026.github.io> /or contact the organizers of this special session as follows:

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