

DAFTAR PUSTAKA

- Alexander, D., 2016. Book Abstract: How to Write an Emergency Plan by David Alexander; Reproduced by Permission. *Health in Emergencies and Disasters Quarterly* 1, 215–224.
- BNPB, 2016. Pedoman Penetapan Status Keadaan Darurat Bencana.
- BNPB, 2018. Rencana Induk Penanggulangan Bencana 2015-2045.
- BNPB, 2021. KAJIAN RISIKO BENCANA NASIONAL PROVINSI 2022-2026. Jakarta.
- BNPB, 2025a. IRBI Indeks Risiko Bencana Indonesia Tahun 2024. Perpustakaan Nasional Indonesia.
- BNPB, 2025b. BNPB Renstra 2025-2029. Jakarta.
- BNPB, 2025c. RENAS PB 2025-2029.
- Boix-Cots, D., Pardo-Bosch, F., Blanco, A., Aguado, A., Pujadas, P., 2022. A systematic review on MIVES: A sustainability-oriented multi-criteria decision-making method. *Build. Environ.*
- BPBD, 2021. Kajian Risiko Bencana Nasional Provinsi Kalimantan Timur 2022-2026.
- Cai, C. guang, Xu, X. hua, Wang, P., Chen, X. hong, 2017. A multi-stage conflict style large group emergency decision-making method. *Soft comput.* 21, 5765–5778.
- Cao, J., Bao, Y., Xu, X., Wei, J., 2026. Modeling Emotion Perception-Based Preference Evolution in Emergency Group Decision-Making: An Intervention Strategy Perspective. *Group Decis. Negot.* 35.
- Cao, J., Xu, X., Dai, F., Liu, B., 2018. THE IMPACT ANALYSIS ON GROUP CONSENSUS FOR EMERGENCY DECISION-MAKING OF LARGE-SCALE PROJECTS: AN EXTREME RISK PREFERENCE PERSPECTIVE. In: *Proceedings of the American Society for Engineering Management 2018 International Annual Conference.*

- Cao, J., Xu, X., Pan, B., 2019. A Risk Minimizing Method Of Large Group Decision And Its Application In Engineering Construction Accident Rescue. In: Proceedings of the 2019 Winter Simulation Conference. IEEE.
- Cao, J., Xu, X., Yin, X., Pan, B., 2022. A risky large group emergency decision-making method based on topic sentiment analysis. *Expert Syst. Appl.* 195, 116527.
- Carrascosa, I.P., 2018. Large group decision making: Creating Decision Support Approaches at Scale, I. ed, SpringerBriefs in Computer Science. Springer.
- Chen, G., Wei, L., Fu, J., Li, C., Zhao, G., 2022. A Large Group Emergency Decision-Making Method Based on Uncertain Linguistic Cloud Similarity Method. *Mathematical and Computational Applications* 27, 101.
- Chen, X., Xu, X., Pan, B., Zhang, W., 2023. Human-Machine Collaboration-Driven Consensus Method for Large-Scale Group Decision-Making Based on Reinforcement Learning Algorithm and its Application.
- Chen, X., Xu, X., Pan, B., Zhang, W., 2024. Human-Machine Collaboration-Driven Consensus Method for Large-Scale Group Decision-Making Based on Reinforcement Learning Algorithm and its Application.
- Cheng, X., Zhang, K., Wu, T., Xu, Z., Gou, X., 2024. An opinions-updating model for large-scale group decision-making driven by autonomous learning. *Inf. Sci. (N. Y.)*. 662.
- Ding, R.X., Wang, X., Shang, K., Herrera, F., 2019. Social network analysis-based conflict relationship investigation and conflict degree-based consensus reaching process for large scale decision making using sparse representation. *Information Fusion* 50, 251–272.
- Ding, X.F., Zhu, L.X., Lu, M.S., Wang, Q., Feng, Y.Q., 2020. A Novel Linguistic Z - Number QUALIFLEX Method and Its Application to Large Group Emergency Decision Making. *Sci. Program.* 2020.
- Du, J., Liu, S., Liu, Y., Tao, L., 2023. Multi-criteria Large-Scale Group Decision-Making in Linguistic Contexts: A Perspective of Conflict Analysis and Resolution. *Group Decis. Negot.* 32, 177–207.

- Du, Z. jiao, Luo, H. yang, Lin, X. dong, Yu, S. min, 2020. A trust-similarity analysis-based clustering method for large-scale group decision-making under a social network. *Information Fusion* 63, 13–29.
- Du, Z. jiao, Yu, S. min, Luo, H. yang, Lin, X. dong, 2021. Consensus convergence in large-group social network environment: Coordination between trust relationship and opinion similarity. *Knowl. Based. Syst.* 217.
- Gai, T., Cao, M., Chiclana, F., Zhang, Z., Dong, Y., Herrera-Viedma, E., Wu, J., 2023. Consensus-trust Driven Bidirectional Feedback Mechanism for Improving Consensus in Social Network Large-group Decision Making. *Group Decis. Negot.* 32, 45–74.
- Gao, P., Hung, J., Xu, Y., 2020. A k-core decomposition-based opinion leaders identifying method and clustering-based consensus model for large-scale group decision making. *Comput. Ind. Eng.* 150, 106842.
- Giarlotta, A., Petralia, A., 2024. Simon’s bounded rationality. *Decisions in Economics and Finance* 47, 327–346.
- Grierson, D.E., 2008. Pareto multi-criteria decision making. *Advanced Engineering Informatics* 22, 371–384.
- Guo, L., Zhan, J., Xu, Z., Alcantud, J.C.R., 2023. A consensus measure-based three-way clustering method for fuzzy large group decision making. *Inf. Sci. (N. Y.)* 632, 144–163.
- Handmer, J., Dovers, S., 2007. *The Handbook of Disaster and Emergency Policies and Institutions*. Earthscan, USA.
- Herrera, F., Martínez, L., 2000. A 2-Tuple Fuzzy Linguistic Representation Model for Computing with Words. *IEEE TRANSACTIONS ON FUZZY SYSTEMS* 8.
- Hou, L.X., Mao, L.X., Liu, H.C., Zhang, L., 2021. Decades on emergency decision-making: a bibliometric analysis and literature review. *Complex and Intelligent Systems* 7, 2819–2832.
- Li, C.C., Dong, Y., Herrera, F., Herrera-Viedma, E., Martínez, L., 2017. Personalized individual semantics in computing with words for supporting linguistic group

- decision making. An application on consensus reaching. *Information Fusion* 33, 29–40.
- Li, C.C., Dong, Y., Liang, H., Pedrycz, W., Herrera, F., 2022. Data-driven method to learning personalized individual semantics to support linguistic multi-attribute decision making. *Omega (United Kingdom)* 111.
- Li, G., Kou, G., Peng, Y., 2022. Heterogeneous Large-Scale Group Decision Making Using Fuzzy Cluster Analysis and Its Application to Emergency Response Plan Selection. *IEEE Trans. Syst. Man Cybern. Syst.* 52, 3391–3403.
- Li, M., Huang, J., Xu, Y., Liu, X., Herrera-Viedma, E., 2023a. Credibility-Supervised Dynamic Clustering and Consensus Model Involving Minority Opinions Handling in Social-Network Large-Scale Decision Making. *IEEE TRANSACTIONS ON FUZZY SYSTEMS* 183–209.
- Li, M., Qiu, L., Xu, Y., Liu, X., Kou, G., Herrera-Viedma, E., 2023b. A Consensus Model Based on Social Network Analysis in Large-Scale Group Decision Making: Mining and Managing Trust Risk Behaviors. *IEEE Trans. Syst. Man Cybern. Syst.* 53, 6204–6219.
- Li, X., Liao, H., Wen, Z., 2021. A consensus model to manage the non-cooperative behaviors of individuals in uncertain group decision making problems during the COVID-19 outbreak. *Appl. Soft Comput.* 99, 106879.
- Li, Z., Zhang, Z., 2025. Modeling Personalized Individual Semantics in Multicriteria Decision Making With Incomplete Linguistic Preference Relations: A Preference Disaggregation Perspective. *IEEE Trans. Syst. Man Cybern. Syst.* 55, 390–403.
- Liu, X. di, Wu, J., Zhang, S. tao, Wang, Z. wen, Garg, H., 2022. Extended Cumulative Residual Entropy for Emergency Group Decision-Making Under Probabilistic Hesitant Fuzzy Environment. *International Journal of Fuzzy Systems* 24, 159–179.
- Liu, F., Zhang, J., Liu, T., 2020. A PSO-algorithm-based consensus model with the application to large-scale group decision-making. *Complex and Intelligent Systems* 6, 287–298.

- Liu, X., Xu, Y., Herrera, F., 2019. Consensus model for large-scale group decision making based on fuzzy preference relation with self-confidence: Detecting and managing overconfidence behaviors. *Information Fusion* 52, 245–256.
- Liu, Z., Wang, W., Liu, P., 2022. Dynamic consensus of large group emergency decision-making under dual-trust relationship-based social network. *Inf. Sci. (N. Y.)*. 615, 58–89.
- Lu, Y., Xu, Y., Herrera-Viedma, E., Han, Y., 2021. Consensus of large-scale group decision making in social network: the minimum cost model based on robust optimization. *Inf. Sci. (N. Y.)*. 547, 910–930.
- Madigan, M.L., 2018. *Handbook of Emergency Management Concepts A Step-by-Step Approach*, CRC Press Taylor & Francis Group.
- Orshella, D.D., Masruroh, N.A., Arini, H.M., 2024a. Large-Scale Group Emergency Decision-Making: A Literature Review. 2023 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) 1657–1661.
- Orshella, D.D., Masruroh, N.A., Arini, H.M., 2024b. Trust Relationship in Large Group Emergency Decision-Making. In: *IEEE International Conference on Industrial Engineering and Engineering Management*. IEEE Computer Society, pp. 202–206.
- Rezaei, J., 2015. Best-worst multi-criteria decision-making method. *Omega (United Kingdom)* 53, 49–57.
- Saaty, T.L., Katz, J.M., 1990. How to make a decision: The Analytic Hierarchy Process, *European Journal of Operational Research*.
- Simon, H.A., 1955. A Behavioral Model of Rational Choice, *Source: The Quarterly Journal of Economics*.
- Singh, A., Gupta, A., 2020. Optimization-Based Consensus Model to Solve Multi-Criteria Large Group Decision Making Problems. *International Game Theory Review* 22.
- Su, W., Chen, L., Gao, X., 2022. Emergency Decision Making: A Literature Review and Future Directions. *Sustainability (Switzerland)* 14, 1–25.

- Sun, T., 2023. Research on Dynamic Emergency Decision-Making of Emergencies Considering Group Members Conflicts and Social Network Big Data. In: ACM International Conference Proceeding Series. Association for Computing Machinery, pp. 1017–1030.
- Sun, X., Zhu, J., 2023. Large-scale group classification decision making method and its application with trust–interest dual factors in social network. *Appl. Soft Comput.* 133.
- Taghavi, A., Eslami, E., Herrera-Viedma, E., Ureña, R., 2020. Trust based group decision making in environments with extreme uncertainty. *Knowl. Based. Syst.* 191, 105168.
- Taheri, E., Wang, C., Zahmat Doost, E., 2023. Emergency decision-making under an uncertain time limit. *International Journal of Disaster Risk Reduction* 95.
- Tang, M., Liao, H., 2021. From conventional group decision making to large-scale group decision making: What are the challenges and how to meet them in big data era? A state-of-the-art survey. *Omega (United Kingdom)* 100, 102141.
- Tang, M., Liao, H., Mi, X., Xu, X., Herrera, F., 2021. Dynamic subgroup-quality-based consensus in managing consistency, nearness, and evenness quality indices for large-scale group decision making under hesitant environment. *Journal of the Operational Research Society* 72, 865–878.
- Vommi, V.B., Kakollu, S.R., 2017. A simple approach to multiple attribute decision making using loss functions. *Journal of Industrial Engineering International* 13, 107–116.
- Wan, Q., Xu, X., Chen, X., Zhuang, J., 2020. A Two-Stage Optimization Model for Large-Scale Group Decision-Making in Disaster Management: Minimizing Group Conflict and Maximizing Individual Satisfaction. *Group Decis. Negot.* 29, 901–921.
- Wan, Q., Xu, X., Han, J., 2024. A dimensionality reduction method for large-scale group decision-making using TF-IDF feature similarity and information loss entropy. *Appl. Soft Comput.* 150.

- Wang, L., Xue, H., 2020. Group decision-making method based on expert classification consensus information integration. *Symmetry (Basel)*. 12.
- Wang, P., Chen, J., 2023. A Large Group Emergency Decision Making Method Considering Scenarios and Unknown Attribute Weights. *Symmetry (Basel)*. 15.
- Wang, Z., Liu, H., Ma, R., 2025. A Probabilistic Linguistic Large-Group Emergency Decision-Making Method Based on the Louvain Algorithm and Group Pressure Model. *Mathematics* 13.
- Wu, T., Liu, X., Qin, J., Herrera, F., 2021. Balance Dynamic Clustering Analysis and Consensus Reaching Process with Consensus Evolution Networks in Large-Scale Group Decision Making. *IEEE Transactions on Fuzzy Systems* 29, 357–371.
- Wu, T., Liu, X.W., 2016. An interval type-2 fuzzy clustering solution for large-scale multiple-criteria group decision-making problems. *Knowl. Based. Syst.* 114, 118–127.
- Wu, Z., Xu, J., 2018. A consensus model for large-scale group decision making with hesitant fuzzy information and changeable clusters. *Information Fusion* 41, 217–231.
- Xiao, J., Wang, X., Zhang, H., 2020. Managing personalized individual semantics and consensus in linguistic distribution large-scale group decision making. *Information Fusion* 53, 20–34.
- Xu, X., Cai, C., Chen, X., Zhou, Y., 2015a. A multi-attribute large group emergency decision making method based on group preference consistency of generalized interval-valued trapezoidal fuzzy numbers. *J. Syst. Sci. Syst. Eng.* 24, 211–228.
- Xu, X., Chai, J., Chen, X., 2023. A hesitation-feedback recommendation approach and its application in large-scale group emergency decision making. *Expert Syst. Appl.* 213, 118876.
- Xu, X., Du, Z.J., Chen, X.H., 2015b. Consensus model for multi-criteria large-group emergency decision making considering non-cooperative behaviors and minority opinions. *Decis. Support Syst.* 79, 150–160.

- Xu, X. hua, Du, Z. jiao, Chen, X. hong, Cai, C. guang, 2019. Confidence consensus-based model for large-scale group decision making: A novel approach to managing non-cooperative behaviors. *Inf. Sci. (N. Y.)*. 477, 410–427.
- Xu, X. hua, Luo, X., 2019. Information entropy risk measure applied to large group decision-making method. *Soft comput.* 23, 4987–4997.
- Xu, X., Huang, Y., Chen, K., 2019a. Method for large group emergency decision making with complex preferences based on emergency similarity and interval consistency. *Natural Hazards* 97, 45–64.
- Xu, X., Liang, D., Chen, X., Zhou, Y., 2015c. A Risk Elimination Coordination Method for Large Group Decision-Making in Natural Disaster Emergencies. *Human and Ecological Risk Assessment* 21, 1314–1325.
- Xu, X., Pan, B., Yang, Y., 2018. Large-group risk dynamic emergency decision method based on the dual influence of preference transfer and risk preference. *Soft comput.* 22, 7479–7490.
- Xu, X., Wang, L., Chen, X., Liu, B., 2019b. Large group emergency decision-making method with linguistic risk appetites based on criteria mining. *Knowl. Based. Syst.* 182.
- Xu, X., Yang, X., Chen, X., Liu, B., 2019c. Large group two-stage risk emergency decision-making method based on big data analysis of social media. *Journal of Intelligent and Fuzzy Systems* 36, 2645–2659.
- Xu, X., Yin, X., Chen, X., 2019d. A large-group emergency risk decision method based on data mining of public attribute preferences. *Knowl. Based. Syst.* 163, 495–509.
- Xu, X., Zhang, Q., Chen, X., 2020. Consensus-based non-cooperative behaviors management in large-group emergency decision-making considering experts' trust relations and preference risks. *Knowl. Based. Syst.* 190, 105108.
- Xu, X., Zheng, K., Pan, B., 2024. A Weighted Information Fusion Method Based on Sentiment Knowledge for Emergency Decision-Making Considering the Public and Experts. *Group Decis. Negot.* 33, 371–398.

- Xu, X., Zhong, X.Y., Chen, X.H., Zhou, Y.J., 2015d. A dynamical consensus method based on exit-delegation mechanism for large group emergency decision making. *Knowl. Based. Syst.* 86, 237–249.
- Xu, Y., Wen, X., Zhang, W., 2018a. A two-stage consensus method for large-scale multi-attribute group decision making with an application to earthquake shelter selection. *Comput. Ind. Eng.* 116, 113–129.
- Xu, Y., Wen, X., Zhang, W., 2018b. A two-stage consensus method for large-scale multi-attribute group decision making with an application to earthquake shelter selection. *Comput. Ind. Eng.* 116, 113–129.
- Xue, B., Tao, G., Zhang, L., 2021. Research on Emergency Decision Making Based on Bayesian Method. *J. Phys. Conf. Ser.* 1827.
- Yan, B., Hu, X., Wang, Y., Xia, W., 2025. A two-stage adaptive consensus reaching process with improved automatic strategy for multi-attribute large group emergency decision-making. *Expert Syst. Appl.* 262.
- Yan, B., Wang, Y., Xia, W., Hu, X., 2023. Novel consensus-reaching model in the social network environment for large-group emergency decision-making: an approach to managing non-cooperative behaviors, *Artificial Intelligence Review*. Springer Netherlands.
- Yin, X., Xu, X., Pan, B., 2021. Selection of Strategy for Large Group Emergency Decision-making based on Risk Measurement. *Reliab. Eng. Syst. Saf.* 208.
- Zamora, D.G., Labella, A., Ding, W., Rodriguez, R.M., Martinez, L., 2022. Large-Scale Group Decision Making: A Systematic Review and a Critical Analysis. *IEEE/CAA Journal of Automatica Sinica* 9, 949–966.
- Zhang, C., Huang, M., Gu, J., Ye, Y., Zeng, S., 2023. A large-group dynamic decision-making method for assessing storm surge emergency plans under hybrid information. *Expert Syst. Appl.* 227, 120263.
- Zhang, H., Li, C.C., Liu, Y., Dong, Y., 2021. Modeling Personalized Individual Semantics and Consensus in Comparative Linguistic Expression Preference

- Relations with Self-Confidence: An Optimization-Based Approach. *IEEE Transactions on Fuzzy Systems* 29, 627–640.
- Zhang, W., Chen, X., Mao, J., Ke, F., Liang, H., 2024. How to select plan in emergency decision-making? A two-stage method with case-based reasoning and prospect theory. *Appl. Soft Comput.* 155.
- Zhang, Z.X., Wang, L., Wang, Y.M., 2018. An Emergency Decision Making Method Based on Prospect Theory for Different Emergency Situations. *International Journal of Disaster Risk Science* 9, 407–420.
- Zhao, M., Guo, J., Wu, X., 2024. A Large Group Emergency Decision-Making Approach on HFLTS With Public Preference Data Mining. *Journal of Global Information Management* 32.
- Zheng, Y., Xu, Z., He, Y., Tian, Y., 2021. A hesitant fuzzy linguistic bi-objective clustering method for large-scale group decision-making. *Expert Syst. Appl.* 168, 114355.
- Zhong, X., Liu, F., Du, Z., Wan, Q., 2025. A two-stage consensus model incorporating manipulative and manipulated behaviors for large group decision-making under social network environment. *Appl. Soft Comput.* 178.
- Zhong, X., Xu, X., Chen, X., 2022. A clustering and fusion method for large group decision making with double information and heterogeneous experts. *Soft comput.* 26, 2451–2463.
- Zhong, X., Xu, X., Chen, X., Goh, M., 2020. Large group decision-making incorporating decision risk and risk attitude: A statistical approach. *Inf. Sci. (N. Y.)* 533, 120–137.
- Zhou, J.L., Chen, J.A., 2021. A Consensus Model to Manage Minority Opinions and Noncooperative Behaviors in Large Group Decision Making with Probabilistic Linguistic Term Sets. *IEEE Transactions on Fuzzy Systems* 29, 1667–1681.
- Zhou, L., Wu, X., Xu, Z., Fujita, H., 2018. Emergency decision making for natural disasters: An overview. *International Journal of Disaster Risk Reduction* 27, 567–576.

Zhou, Y.J., Zhou, M., Wu, J., Pedrycz, W., Liu, X.B., 2025. Asynchronous Consensus Evolution Mechanism for Large Group Emergency Decision Making: Risk Mitigation Strategy Selection Under Uncertainty. *IEEE Trans. Syst. Man Cybern. Syst.* 55, 6753–6766.