

1.	Record Nr.	UNISOBSOBE00037970
	Autore	Selvatico, Pietro
	Titolo	Scritti d'arte / di Pietro Estense Selvatico
	Pubbl/distr/stampa	Firenze : Barbera, Bianchi e C., 1859
	Descrizione fisica	VIII, 408 p. ; 19 cm
	Lingua di pubblicazione	Italiano
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910755089303321
	Autore	Asadzadeh Mohammad
	Titolo	Gas Dynamics with Applications in Industry and Life Sciences : On Gas Kinetic/Dynamics and Life Science Seminar, March 25–26, 2021 and March 17–18, 2022 // edited by Mohammad Asadzadeh, Larisa Beilina, Shigeru Takata
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
	ISBN	3-031-35871-6
	Edizione	[1st ed. 2023.]
	Descrizione fisica	1 online resource (288 pages)
	Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1017 ; ; 429
	Altri autori (Persone)	BeilinaLarisa TakataShigeru
	Disciplina	570.151
	Soggetti	Differential equations Numerical analysis Mathematical models Mathematical physics Differential Equations Numerical Analysis Mathematical Modeling and Industrial Mathematics Mathematical Methods in Physics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

1. The history and significance of the Klein-Nishina formula (I. P´azsit)
- 2. Constructions of simple kinetic equations for a dense gas (T. Miyauchi, S. Takata, M. Hattori, A. Takahashi) --
3. Double Layer Solutions of the Vlasov–Poisson System (M. Suzuki, M. Takayama) --
4. Inverse Magnus effect in a rarefied gas (S. Taguchi, T. Tsuji) --
5. A discontinuous Galerkin approach for stabilized Maxwell’s equations in pseudo-frequency domain (M. Asadzadeh, L. Beilina) --
6. Bidomain model for axon bundles with random geometry (I. Pettersson, A. Rybalko, V. Rybalko) --
7. A posteriori error estimates and adaptive error control for permittivity reconstruction in conductive media (L. Beilina, E. Lindström) --
8. Truncated SVD for applications in microwave thermometry (L. Beilina, E. Lindström, L. Frischauf, D. McKelvey) --
9. Methods of quantitative reconstruction for acoustic coefficient inverse problem (L. Beilina, Y. G. Gleichmann, and M. J. Grote) --
10. Numerical validation of optimization approach for solution of coefficient inverse problem in pseudo-frequency domain (A. Karzhou, I. Pettersson, L. Beilina, and K. Pettersson) --
11. A multiscale numerical simulation of quasi-two-dimensional bacterial turbulence using a regularized Stokeslet representation (K. Ishimoto) --
12. Visualization of ^{14}C -labeled gas fixation in a plant – development of real-time radioisotope imaging (T. M. Nakanishi) --
13. Numerical study on the self-organized pattern formation of run-and-tumble chemotactic bacteria (K. Adachi, S. Yasuda) --
14. Derivation of a generalised replicator equation in the limit of weak selection (P. Gerlee) --
15. A review and case study of neural network techniques for automated generation of high level-of-detail 3D city models (V. Naserentin, G. Spaios, A. Kaimakamidis, N. Pitsianis, A. Logg).

Sommario/riassunto

This proceedings volume gathers selected contributions presented at two instances of the "JSPS/SAC Seminar: On Gas Kinetic/Dynamics and Life Science", held by the Chalmers University of Technology and University of Gothenburg, Sweden, on March 25-26, 2021 (virtual) and March 17-18, 2022 (virtual). Works in this book provide a concise approach to the theoretical and numerical analysis of kinetic type equations that arise, for example, in modeling industrial, medical, and environmental problems. Readers will find some of the most recent theoretical results, newly developed numerical methods in the field, and some open problems. Possible application areas encompass fission/fusion energy, electromagnetics, nuclear science and engineering, medical service, radiation oncology, and plants growth conditions, to name a few. The JSPS/SAC seminars are jointly organized by JSPS (Japan Society for the Promotion of Science)—Stockholm Office and the Department of Mathematical Sciences, Chalmers University of Technology & University of Gothenburg, Sweden. These seminars foster discussions on the mathematical theory, industrial and life science applications, and numerical analysis of non-linear hyperbolic partial differential equations modeling collision-less plasma and charged particles. Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. Chapter 11 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
