

Publications by Alberto Bressan

Books

- *Hyperbolic Systems of Conservation Laws. The One Dimensional Cauchy Problem*, Oxford University Press, Oxford 2000.
- *Introduction to the Mathematical Theory of Control*, AIMS Series in Applied Mathematics, Springfield Mo. 2007 (with B. Piccoli).
- *Lecture Notes on Functional Analysis, with Applications to Linear Partial Differential Equations*. American Mathematical Society Graduate Studies in Mathematics Vol. 143, Providence, RI, 2013.

Books Edited

- *Geometric Control and Nonsmooth Analysis*. Proceedings of the Conference at the Istituto Nazionale di Alta Matematica (INdAM), Rome, June 2006, in honor of the 73rd birthday of H. Hermes and of the 71st birthday of R. T. Rockafellar. Edited by F. Ancona, A. Bressan, P. Cannarsa, F. Clarke and P. R. Wolenski. World Scientific, Hackensack, NJ, 2008.
- *Nonlinear Conservation Laws and Applications*. Proceedings of the IMA Summer Program held in Minneapolis, July 13–31, 2009. Edited by A. Bressan, G. Q. Chen, M. Lewicka, and D. Wang. Springer, New York, 2011.
- *Modelling and Optimisation of Flows on Networks*. Edited by L. Ambrosio, A. Bressan, D. Helbing, A. Klar, and E. Zuazua. Springer Lecture Notes in Mathematics **2062**, CIME Foundation Subseries, 2012.
- *Hyperbolic Problems: Theory, Numerics, Applications*. Proceedings of the 14-th International Conference (HYP2012) held in Padova, June 25–29, 2012. Edited by F. Ancona, A. Bressan, P. Marcati and A. Marson. American Institute of Mathematical Sciences (AIMS), Springfield, MO, 2014.
- *Hyperbolic Problems: Theory, Numerics, Applications*. Proceedings of the 17-th International Conference (HYP2018) held at Penn State University, June 25–29, 2018. Edited by A. Bressan, M. Lewicka, D. Wang, and Y. Zheng. American Institute of Mathematical Sciences (AIMS), Springfield, MO, 2020.

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- BV solutions to systems of conservation laws by vanishing viscosity, In: Hyperbolic Systems of Balance Laws, P. Marcati Ed., *Lecture Notes in Math.* **1911** Springer, Berlin, (2007), pp. 1–78.
- A tutorial on the center manifold theorem. In: Hyperbolic Systems of Balance Laws, P. Marcati Ed., *Lecture Notes in Math.* **1911** Springer, Berlin, (2007), pp. 327–344.
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- Hyperbolic conservation laws: an illustrated tutorial. In “Modelling and Optimisation of Flows on Networks”. Edited by L. Ambrosio, A. Bressan, D. Helbing, A. Klar, and E. Zuazua. *Springer Lecture Notes in Mathematics* **2062**, CIME Foundation Subseries, 2012, pp.157–245.
- Noncooperative differential games. *Milan J. of Mathematics*, **79** (2011), 357–427.
- Dynamic blocking problems for a model of fire propagation. In *Advances in Applied Mathematics, Modeling, and Computational Science*, pp. 11–40. R. Melnik and I. Kotsireas editors. Fields Institute Communications, Springer, New York, 2013.

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12. Local asymptotic approximation of nonlinear control systems, *International J. Control*, **41** (1985), 1331–1336.
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