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The Galois approach to uniform structures. (English summary)

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The paper is a thorough study of various aspects of (possibly nonsymmetric) uniformities in the point-free context. A general approach using Galois connections (the authors use the term for the contravariant case) covers the known constructions (for instance, the Hunsaker-Fletcher pointfree uniformity, or the Picado one), elucidates the different angles of view, and explains the equivalences between them. Furthermore, the quantale of Galois connections is presented in a categorical way.

Reviewed by *A. Pultr*

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Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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