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Sommario/riassunto	<p>The past decade has seen the emergence of a new scientific field in which computational intelligence techniques are employed to study how biological and artificial systems develop sensorimotor, cognitive and social abilities through dynamic interactions with their physical and social environments, with a twofold objective to gain a better understanding of human and animal intelligence, and to enable artificial systems with more adaptive and flexible behaviors. The ICDL conference (previously ICDL Epirob) is the flagship international conference of this research community in this twelfth edition of the conference we invite submissions that explore, extend, and consolidate the interdisciplinary boundaries of this exciting research field. In addition to the usual paper submission selection process, the SmartBot Challenge will crown computational models that capture core aspects of specific psychology experiments.</p>