

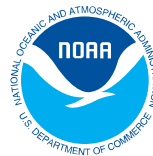
WEB-BASED DATA PROCESSING FOR ENVIRONMENTAL SURVEILLANCE MONITORING APPLICATIONS

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WALS AIP

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Problem Statement

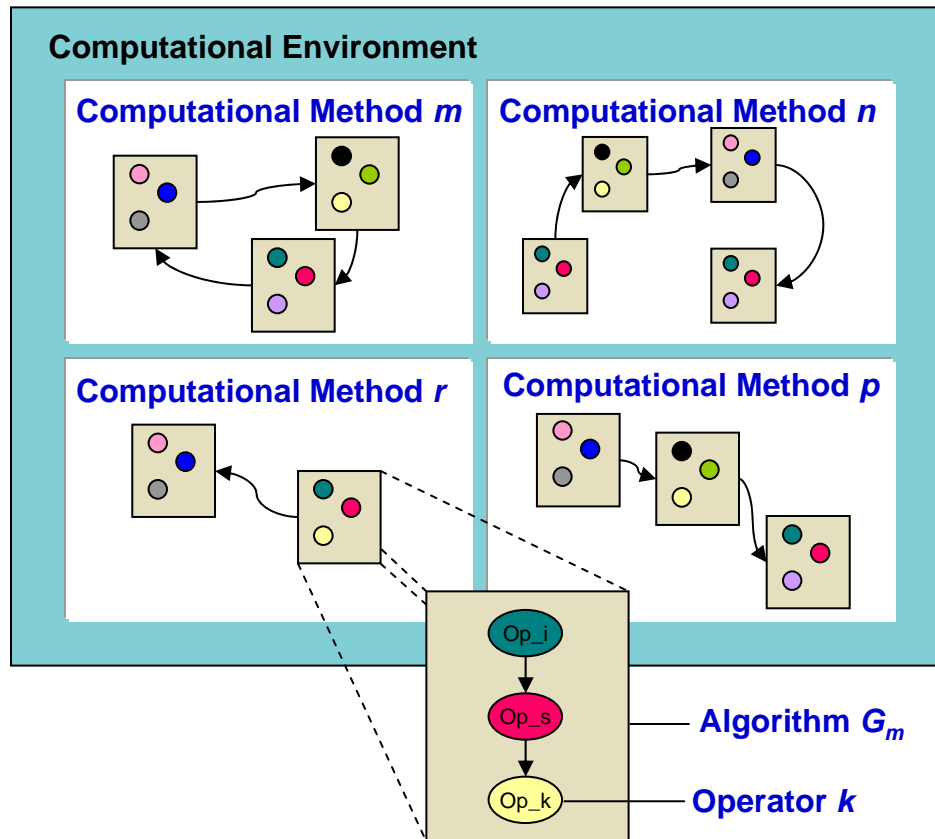
There is a need to present in an unified manner fundamental principles of signal processing theory, under a computational and information processing environment, to aid in the solution of environmental surveillance monitoring applications.



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Computational Signal Processing Theory



CSP deals with the formulation of computational methods in order to extract information important to a user.

The **computational methods** are composed by **algorithms**, which are well defined procedures to solve a problem in a finite number of steps

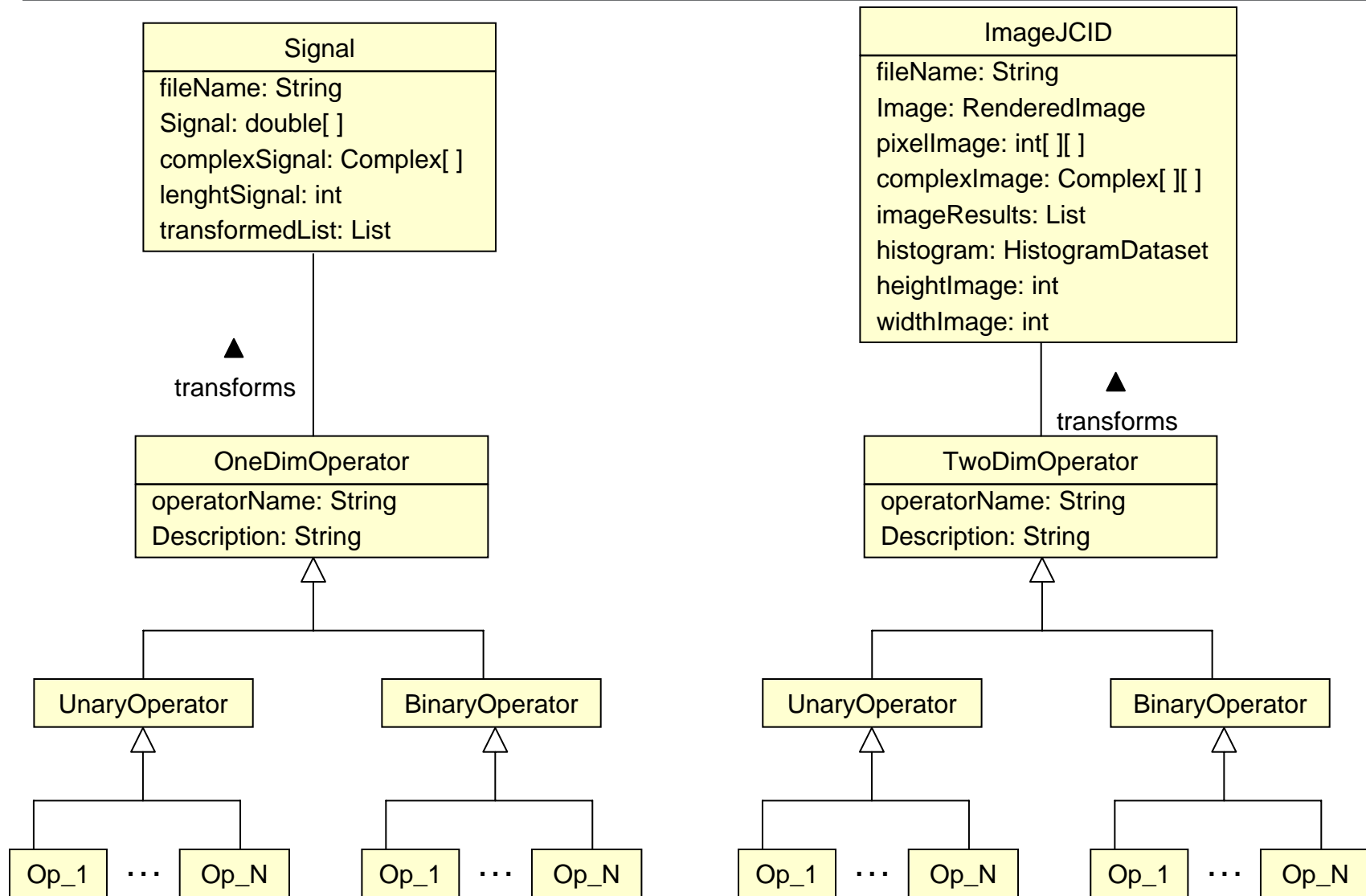
The procedures are composed by a sequence of operations that are called **operators**.



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Object-Oriented Signal Operator Approach



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