

Universal Algebras

1 Operations

A **universal algebra** is a set X with some operations $\ast : X^n \rightarrow X$ and relations¹ $\sim \subseteq X^m$.

For example, there may be specific constants ($n = 0$), functions ($n = 1$), and operations ($n = 2$), etc. An n -ary operation is usually written as $x \ast y \ast \dots$ instead of $\ast(x, y, \dots)$, and an m -ary relation as $x \sim y \sim \dots$ instead of $\sim(x, y, \dots)$.

Elements are *indistinguishable* when

$$\ast(\dots, x, \dots) = \ast(\dots, y, \dots), \quad \sim(\dots, x, \dots) \Leftrightarrow \sim(\dots, y, \dots).$$

A **subalgebra** is a subset closed under all the operations

$$x, y, \dots \in Y \Rightarrow x \ast y \ast \dots \in Y$$

(The relations are obviously inherited.)

If A_i are subalgebras, then $\bigcap_i A_i$ is a subalgebra.

$[A]$, the subalgebra generated by A , is the smallest subalgebra containing A ,

$$[A] := \bigcap \{Y \subseteq X : A \subseteq Y, Y \text{ is a subalgebra}\}$$

Hence $A \subseteq Y \Leftrightarrow [A] \subseteq Y$ (for any subalgebra Y).

$A \cap B$ is the largest subalgebra contained in the algebras A and B ; $[A \cup B]$ is the smallest containing them. The collection of subalgebras form a complete lattice.

For any subsets, $\begin{aligned} A &\subseteq [A], & [[A]] &= [A] \\ A \subseteq B &\Rightarrow [A] \subseteq [B]. \end{aligned}$
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The map $A \mapsto [A]$ is thus a ‘closure’ map on the lattice of subsets of X , with the ‘closed sets’ being the subalgebras.

Proof. Let $x, y, \dots \in [A]$, then for any $Y \supseteq A$, $x \ast y \ast \dots \in Y$, so $x \ast y \ast \dots \in [A]$. Hence $A \subseteq B \subseteq [B]$ gives $[A] \subseteq [B]$. Also $[A] \subseteq [A]$, so $[[A]] \subseteq [A] \subseteq [[A]]$. □

When the number of operations is finite, the generated subalgebra can be constructed recursively as $[A] = \bigcup_{n \in \mathbb{N}} B_n$ where

$$B_0 := A, \quad B_{n+1} := B_n \cup \bigcup_{\ast} \ast(B_n).$$

¹Relations are not usually included in the definition of universal algebras.

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Lectures in Universal Algebra L. Szabó, A. Szendrei, 2016-01-22 These 34 papers cover topics ranging from various problems on varieties and other classes of algebras including categorical aspects and duality theory to the structure of finite algebras and clones on finite or infinite sets As well as survey articles by invited speakers the papers contain full proofs of new results not published elsewhere The volume ends with a list of problems *Universal Algebra for Computer Scientists* Wolfgang Wechler, 2012-12-06 A new model theoretic approach to universal algebra is offered in this book Written for computer scientists it presents a systematic development of the methods and results of universal algebra that are useful in a variety of applications in computer science The notation is simple and the concepts are clearly presented The book concerns the algebraic characterization of axiomatic classes of algebras equational implicational and universal Horn classes by closure operators generalizing the famous Birkhoff Variety Theorem and the algebraic characterization of the related theories The book also presents a thorough study of term rewriting systems Besides basic notions the Knuth Bendix completion procedure and termination proof methods are considered A third main topic is that of fixpoint techniques and complete ordered algebras Algebraic specifications of abstract data types and algebraic semantics of recursive program schemes are treated as applications The book is self contained and suitable both as a textbook for graduate courses and as a reference for researchers

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