

## Chapter 5 Dynamical Control Systems



### 5.1 Dynamical Systems

We start by clarifying notation and terminology. Let  $M$  be a topological manifold,  $(\mathcal{T}, \cdot)$  a commutative topological group with  $e \in \mathcal{T}$  denoting its *identity* element, i.e.,  $s \cdot e = e \cdot s = s \forall s \in \mathcal{T}$  and let  $\varphi : \mathcal{T} \times M \rightarrow M$  be a continuous map. The triple  $(M, \mathcal{T}, \varphi)$  is a *dynamical system* when the following axioms are satisfied

- (i) the *identity property*:  $\varphi(e, p) = p$  for all  $p \in M$ ; and
- (ii) the *group property*:  $\varphi(s \cdot t, p) = \varphi(s, \varphi(t, p))$  for all  $s, t \in \mathcal{T}$  and  $p \in M$ .

When  $\mathcal{T} = \mathbb{R}$  the map  $\varphi$  is said to be a (global) *flow*. In that case, the axioms are conveniently written as  $\varphi^0 = \text{id}_M$  and  $\varphi^s \circ \varphi^t = \varphi^{s+t} \forall s, t \in \mathbb{R}$ , with  $\varphi^t$  denoting the homeomorphism  $\varphi(t, \cdot) : M \rightarrow M$ . Indeed, see that a flow naturally induces the homotopy equivalence  $\varphi^t(U) \simeq_h \varphi^s(U)$  for any  $s, t \in \mathbb{R}$  and open set  $U \subseteq M$ . See also that  $(M, \mathcal{T}, \varphi)$  is *time-invariant* in the sense that  $\varphi(s, p)$  only depends on the current point  $p \in M$  and the “time”  $s$  to propagate, i.e.,  $\varphi(s, \varphi(s^{-1}, \varphi(s, p))) = \varphi(s, p)$ .

Let  $M$  be a smooth manifold and let  $X \in \mathfrak{X}^r(M)$ , with  $r \in \mathbb{N} \cup \{\infty\}$ , denote a  $C^r$ -smooth *vector field* over  $M$ , that is,  $X : M \rightarrow TM$  is a  $C^r$ -smooth map and  $\pi_p \circ X = \text{id}_M$  for  $\pi_p$  being the canonical projection  $\pi_p : TM \rightarrow M$  defined by  $\pi_p : (p, v) \mapsto p$ , sometimes simply written as  $\pi$ . Equivalently,  $C^r$  vector fields  $X$  on  $M$  can be understood as  $C^r$  sections of the tangent bundle, denoted  $X \in \Gamma^r(TM)$ . The evaluation of  $X \in \mathfrak{X}^r(M)$  at  $p \in M$  is a tangent vector  $X(p) = X_p \in T_pM$ .

Then, a differentiable curve  $\xi : \mathcal{I} \subseteq \mathbb{R} \rightarrow M$ , for some appropriate interval  $\mathcal{I}$ , is called an *integral curve* of the vector field  $X$  when  $\dot{\xi}(t) = X(\xi(t))$  for all  $t \in \mathcal{I}$ . A manifestation of a flow that will be of interest is as a map parametrizing all integral curves of a vector field. Given a vector field  $X \in \mathfrak{X}^r(M)$ , then via the relation

$$\left. \frac{d}{dt} \varphi^t(p) \right|_{t=r} = X(\varphi^r(p)), \quad (5.1)$$

we can define a  $C^r$  local flow  $\varphi : \text{dom}(\varphi) \rightarrow M$ , where the regularity is commonly with respect to the second argument of the flow. See that the map  $t \mapsto \varphi^t(p)$  is always at least  $C^1$  when the flow is generated by a continuous vector field. A flow

# Dynamical Systems And Control

**Jicheng Xie**



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